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Research Report 1281

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UTILIZATION OF TACTICAL COMPUTERS FOR TRAINING: JOB/TASK AND TRAINING ANALYSIS

A. K. Butler, W. G. Hoyt and P. W. Leung
System Development Corporation

MANPOWER AND EDUCATIONAL SYSTEMS TECHNICAL AREA

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Research accomplished under contract
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SYSTEM DEVELOPMENT CORPORATION

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Item 20 (Cont'd)

Artillery Target Intelligence (ATI); Ammunition and Fire Unit (AFU); Support (SPRT) and System (SYS).

The job/task analysis conducted in this report is based on an analysis of TACFIRE documentation, and analysis of the system engineering of training documentation prepared by the U.S. Army Field Artillery School, discussions with TACFIRE personnel at USAFAS and demonstrations of hands-on operations of the TACFIRE equipment.



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FOREWORD

This is the second in a series of six reports by the System Development Corporation (SDC) which describes the utilization of tactical computers for training. The first report was on the Analysis of System and Training Requirements (RN 80-29). Other reports under contract DAHC19-75-C-0031 are: Field Evaluation Plan (RN 80-30), Job/Task and Training Analysis-Ammunition and Fire Unit (AFU) Module (RR 1282), Analysis of System and Training Requirements (Summary Report) (RR 1283) and Development of CAI Performance Measures: TACFIRE Tactical Data System (RR 1284).

This Research Report (RR 1281) presents the Phase II results in the development of TACFIRE Automated Instruction (AI) Courseware.


JOSEPH ZEIDNER
Technical Director

EXECUTIVE SUMMARY

The purpose of this project was to examine the feasibility of using computer-assisted instruction (CAI) as an embedded, stand-alone, individualized training program for instructing operational users of the TACFIRE Tactical Data System.

TACFIRE courseware, based upon an analysis of system and training requirements and a Job/Task and Training Analysis, has been developed and produced in five functional areas: Tactical and Technical Fire Control (Fire Mission Module); Artillery Target Intelligence (ATI Module); Ammunition and Fire Unit (AFU Module); Support (SPRT Module); and System (SYS Module). Courseware consists of independent modular blocks of instruction containing 44 PLANIT Lessons (23 Student Lessons) and 10 performance based module pre- and post-tests totaling approximately 3,600 PLANIT frames. Average course time for this individualized, self-paced embedded training program is estimated at 40 hours. Preliminary estimates indicate 25% to 35% of battalion fire direction center (FDC) operations are covered. Based on this estimate, for twice the cost of the current effort the remainder can be done. Courseware applies also to DivArty FDC operations, as well as a spin-off to fire support officer (FSO) and fire support element (FSE) operations.

The Courseware is well documented. The specific tasks, criterion and enabling objectives, and test items are well defined, having been developed in accordance with the TRADOC Systems Approach to Training (SAT), Systems Engineering of Training, TRADOC Reg 350-100-1, and with the "functional context plus" approach. This approach considers the job (tasks), what the student brings into the learning situation and how to arrange lesson modules to be maximally supportive of the student during the learning process. The course starts in a context familiar to the student, providing a bridge between his previous experience (manual field artillery) and TACFIRE. This makes it easier for the student to learn, relate, and integrate TACFIRE operations. This approach further provides an organization (course and lesson design) where earlier lessons, such as fire missions (TFFC-FM function), provide the basis and requirement for other operations, such as fire unit and observer location (AFU function). The "why," "effect," and "use" of various operations is made explicit as a natural part of course development. This also makes it easy for the student to learn, relate and integrate TACFIRE operations. It also provides for repeated reinforcement of TACFIRE operations during the course.

The TACFIRE course executes properly on the TACFIRE system, has been reviewed for content and tactical employment by personnel of the U.S. Army Field Artillery School (USAFAS), and is operationally ready for implementation. The courseware is expected to produce individuals who can perform in an operational setting, under light load conditions, the tasks/job covered in the course. An extensive on-the-job training (OJT) period of 5 or 6 months should not be required. Further training such as a carefully planned series of exercises (light load, medium load, heavy load), each stressing various objectives, should result in an operational ready individual within a short time frame.

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This program can be used on any TACFIRE system for training, either in a school or field environment.

The courseware is updated quickly and easily as changes in tactical doctrine or equipment occur. This was fully demonstrated during the content review by USAFAS personnel when changes were made on-line as each module was reviewed. Cost of courseware for each additional TACFIRE system is minimal, i.e., the cost of duplicating courseware computer tape and printing additional copies of the offline course exhibits.

Automated instruction (AI) can be developed for all the functional areas. There are no methodological restrictions. The determining factor for those selected for this project was that they were more critical for fire direction.

Recommendations include:

1. Complete the courseware development to provide a permanent embedded training program, easily modified to meet changes in tactical doctrine and equipment, and easily duplicated to as many TACFIRE systems as required.
2. Use courseware to provide orientation and initial exposure to TACFIRE.
3. Use TACFIRE AI Module tests to determine need for refresher training.
4. Use the methodology and restructure the TACFIRE AI course for command and staff personnel who are not "direct" users of the system.
5. Use the proven methodology and inherent classification of the system components to develop a classified AI training program applicable to nuclear weapons.
6. Develop a simplified reference manual for ACC operators.
7. Develop a computerized production system for generating exercises.
8. Develop embedded training programs for other tactical data systems.
9. Develop or use TACFIRE modules to train reserve units affiliated with active Army units.

Documentation produced in this project, including this final report, are as follows:

Utilization of Tactical Computers for Training: Analysis of System and Training Requirements, 20 June 1975. (Research Note 80-29).

Utilization of Tactical Computers for Training: Job/Task and Training analysis, 20 August 1975. (Research Report 1281).

Utilization of Tactical Computers for Training: Field Evaluation Plan, 5 December 1975. (Research Note 80-30).

Utilization of Tactical Computers for Training: Job/Task and Training Analysis - Ammunition and Fire Unit (AFU) Module, 1 March 1976. (Research Report 1282).

Utilization of Tactical Computers for Training: Summary Report. (Research Report 1283).

TACFIRE AI courseware and module tests in the form of card decks, course listings and off-line course exhibits.

UTILIZATION OF TACTICAL COMPUTERS FOR TRAINING: JOB/TASK AND TRAINING ANALYSIS

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1. INTRODUCTION

This Research Report, RR 1281, Utilization of Tactical Computers for Training: Job/Task and Training Analysis, presents the Phase II results in the development of TACFIRE Automated Instruction (AI) courseware. Figure 1 depicts the five phases that constitutes the total project effort.

A. SCOPE

The overall project aim is to extend the scope of the application of computer-assisted interaction (CAI) to the development of self-instructive programs and procedures for users of tactical data processing systems. The basic approach is to provide AI training subsystem packages which can be run on the operating system and, when not used for tactical operation, to provide initial and refresher training in system use. The overall objective of this work effort is the development of stand alone CAI courseware appropriate to the training of users of the TACFIRE System. Project products will provide the foundation for subsequent evaluation and refinement of CAI technology as applied to training in tactical systems.

In Phase I, the TACFIRE functional areas were selected for AI training. These functional areas were Technical and Tactical Fire Control (FM); Artillery Target Intelligence (ATI); **Ammunition** and Fire Unit (AFU); Support (SPRT); and System (SYS).

B. PURPOSE

The purpose of Phase II is to conduct a detailed job/task analysis of the five functional areas selected for AI training and report the results. This system engineering of training process, in accordance with TRADOC Reg 350-100-1, includes: (1) the development of Task/Subtask Flow Charts; (2) the development of Training Analysis Information Sheets (TAIS); (3) the development of Criterion and Enabling Objective Worksheets, and (4) the development of performance based criterion test items. In addition, content development outlines have been prepared.

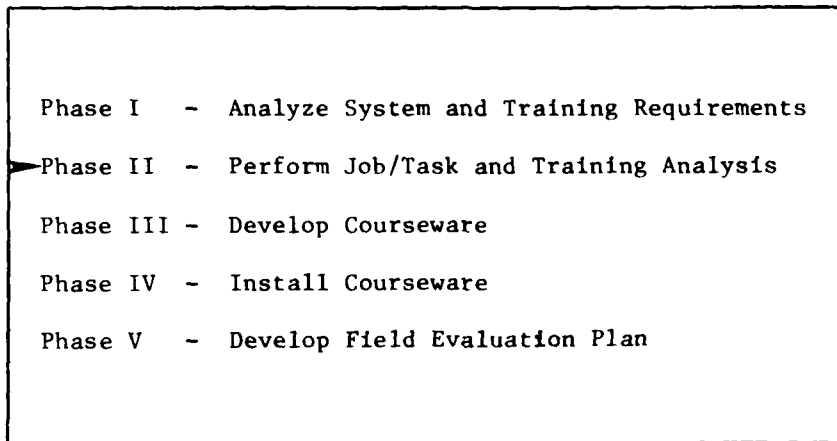


Figure 1. Utilization of Tactical Computers for Training:
Major Project Phases

The job/task analysis conducted for Phase II is based upon an analysis of TACFIRE documentation, an analysis of the system engineering of training documentation prepared by the U.S. Army Field Artillery School (USAFAS), Ft. Sill, Oklahoma, discussions with TACFIRE personnel at USAFAS, and demonstration of the hands on experience operating the TACFIRE equipment at USAFAS and the MELPAR Facility Computer Systems Command, Arlington, Virginia.

C. ORGANIZATION

The results of the job/task analysis are linked together by an audit trail utilizing the TAIS number on each of the Phase II products. The relationship between various sections of this report are shown by the TAIS number, e.g., 1001, and the breakdown of the task elements, e.g., 1001.1, 1001.2. This numbering system is carried over to the Criterion and Enabling Objectives and the Test Item Worksheets.

Section I of this Research Report identifies the position of Phase II in the major project phases, the purpose of Phase II, and the organization of this report. Section II provides the content development outlines. These data includes a summary of the subject content and the general task/objectives for each functional area (module).

Section II provides the Task/Subtask Flow Charts which show the relationship between each selected task and the various levels of task sub-elements involved in the performance of the task.

Section IV provides the Training Analysis Information Sheets (TAIS), Criterion and Enabling Objectives and Test Items for each of the five functional areas. The documentation used in preparation of this report is listed under References in Appendix A.

These Phase II products after review by the U.S. Army Field Artillery School will form the basis for Phase II of this project: Develop Courseware.

II. CONTENT DEVELOPMENT OUTLINES

This section contains the content development outlines for the TACFIRE functions that were selected for the Phase II Job/Task and Training Analysis. Subject content for each TACFIRE functional area is indicated on the left with a corresponding general task/objective statement for each major sub area presented on the right. The audit trail for each general task/objective is maintained by the TAIS number (e.g., 1001) throughout the Task/Subtask Flow Charts (Section III) and Training Analysis documentation; TAIS, Criterion and Enabling Objectives, and Test Items (Section IV), for each TACFIRE functional area.

Content development outlines cover tasks in the following functional areas:

- Tactical and Technical Fire Control Function
- Artillery Target Intelligence Function
- Ammunition and Fire Unit Function
- Support Function
- Operating System Messages

Tactical and Technical Fire Control
Function

General Task/Objective (TAIS)

- | | |
|--|---|
| <p>1. Artillery Control Console</p> <p>a. Component parts</p> <ol style="list-style-type: none"> 1) Receive Display (RD) 2) Compose/Edit Display (CED) 3) ACC Alphanumeric Keyboard 4) Switch Panel Assembly (SPA) 5) Digital Plotter Map (DPM) 6) Electronic Line Printer (ELP) <p>b. Function</p> <ol style="list-style-type: none"> 1) RD 2) CED 3) ACC keyboard 4) SPA 5) DPM 6) ELP | <p>1001 Identify the major components of the ACC, state their purpose and identify the ELP and DPM.</p> |
| <p>2. Message Status Line</p> <p>a. Purpose</p> <p>b. Mnemonics</p> <ol style="list-style-type: none"> 1) MSG 2) FM 3) ERR 4) DM 5) ACT | <p>1002 State the purpose and identify mnemonics of the message status line.</p> |
| <p>3. Communication Line</p> <p>a. Purpose</p> <p>b. Mnemonics</p> <ol style="list-style-type: none"> 1) Header 2) Priority (P) 3) Subscriber (SB) 4) Security Classification (C) 5) Segment (SG) 6) Date-time-group (DT) | <p>1003 State the purpose and identify mnemonics of the communication line.</p> |

- | | | | |
|----|---|------|--|
| 4. | SPA Switches | 1004 | Identify the SPA switches to display and transmit messages. |
| | a. Display Switches | | |
| | 1) PRIORITY MESSAGE | | |
| | 2) CYCLE MESSAGES | | |
| | 3) PAGE | | |
| | b. Transmit switches | | |
| | 1) RD XMIT | | |
| | 2) RD CMPTR ACTION | | |
| 5. | Process Fire Mission in Automatic Mode | 1005 | Process a fire mission received from a FO message device when operating in the automatic mode. |
| | a. Identify message status indicators. | | |
| | b. Process initial fire request. | | |
| | 1) Identify purpose of FM formats. | | |
| | 2) Display messages. | | |
| | 3) Interpret FM mnemonics. | | |
| | 4) Transmit fire commands to fire units. | | |
| | c. ELP record of adjust fire, FFE and end of mission. | | |
| | d. Process mission fired report. | | |
| | 1) Identify purpose of AFU; MFR message. | | |
| | 2) Display AFU;MFR message. | | |
| | 3) Interpret mnemonics. | | |
| | 4) Take computer action and identify results. | | |
| 6. | Process Fire Mission in Manual (normal) Mode | 1006 | Process a fire mission received from a FO message device when operating in the manual (normal) mode. |
| | a. Identify differences between | | |

automatic and manual modes.

b. Process fire request.

- 1) Display FM request.
- 2) Interpret message formats.
- 3) Transmit fire commands to fire units.

c. Process adjust fire and FFE.

- 1) Purpose of FM;SUBS message.
- 2) Display message formats.
- 3) Interpret message formats.
 - a) FM;SUBS message
 - b) FM;5205 message
 - c) FM;FC message
- 4) Transmit fire commands to fire units.

d. Process end of mission.

- 1) Display AFU;MFR message.
- 2) Interpret AFU;MFR message.
- 3) Take computer action and identify results.

7. Process Voice Received Fire Mission 1007 Process a fire mission received by voice communication when operating in the manual mode, implement a check fire and cancel check fire using the ACC command switches.
- a. Select and display FM;RFAF message.
 - 1) Depress format matrix switches.
 - 2) Activate FORMAT COMMAND switch.
 - b. Identify entries for fire mission
 - 1) CORD
 - 2) TYPE
 - 3) DOP
 - 4) SIZE

- c. Take computer action and identify results.
- d. Display, interpret and transmit initial FM;RFAF message.
 - 1) Display FM;RFAF message.
 - 2) Interpret message formats.
 - 3) Transmit fire commands to fire units.
- e. Select and display FM;SUBS message.
 - 1) Depress format matrix switches.
 - 2) Activate FORMAT COMMAND switch.
- f. Identify entries for adjust fire.
 - 1) TGT
 - 2) DIR
 - 3) SHIFT
 - 4) CONT
- g. Take computer action and identify results.
- h. Display, interpret and transmit adjust fire messages.
- i. Implement check fire.
- j. Cancel check fire.
- k. Select and display FM;SUBS message.
- l. Identify entries for FFE.
 - 1) TGT
 - 2) DIR
 - 3) SHIFT
 - 4) CONT

- m. Take computer action and identify results.
 - n. Display, interpret and transmit FFE messages.
 - o. Select and display FM;SUBS message.
 - p. Identify entries for end of mission.
 - 1) TGT
 - 2) EOM
 - 3) DISPO
 - 4) CAS
 - q. Take computer action and identify results.
 - r. Process end of mission.
 - 1) Display AFU;MFR message.
 - 2) Interpret AFU;MFR message.
 - 3) Take computer action and identify results.
8. Process a Fire Mission Requiring Div Arty Support
- 1008 Process a fire mission received from a FO message device requiring Div Arty support when operating in the manual mode.
- a. Process initial fire request.
 - 1) Display initial FM request.
 - 2) Interpret message formats.
 - a) FM;RFAF message
 - b) FM;5205 message
 - c) FM;FC message
 - 3) Take DELETE action on Div Arty RFAF.
 - b. Process adjust fire.

c. Process FFE.

- 1) Select and display FM;COMD message.
 - a) Depress format matrix switches.
 - b) Activate FORMAT COMMAND switch.
- 2) Identify message format entries to request Div Arty support.
 - a) TGT
 - b) XMIT
- 3) Take computer action and identify results.

d. Process end of mission.

- 1) Display AFU;MFR message.
- 2) Interpret AFU;MFR message.
- 3) Take computer action and identify results.

Process Quick Fire Mission

1009 Process a fire mission against a target established as a known point.

- a. Display FM;QF message.
- b. Interpret message formats.
 - 1) FM;QF message
 - 2) FM;5205 message
 - 3) FM;FC message
- c. Transmit fire commands to fire units.
- d. Process end of mission.
 - 1) Display AFU;MFR message.
 - 2) Interpret AFU;MFR message.
 - 3) Take computer action and identify results.

10. Update Location of Forward Observer

a. Select and display FM;OBCO message.

1) Select FM;OBCO message format.

- a) Depress format matrix switches.
- b) Activate FORMAT COMMAND switch.

2) Select FM;DIR message format.

- a) Depress format matrix switch.
- b) Activate FORMAT COMMAND switch.
- c) Move cursor to letter O.
- d) Activate FORMAT SELECT switch.

b. Identify entries for FO location.

- 1) OB
- 2) CORD

c. Take computer action and identify results.

d. Print and verify entries.

- 1) Select and display FM;COMD message.
- 2) Specify OBF and PRINT.
- 3) Take computer action.
- 4) Interpret FM 5208 OB LIST output message.

1010 Update location of forward observer (voice input) and verify entries.

Artillery Target Intelligence FunctionGeneral Task/Objective (TAIS)

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Purpose and Use <ol style="list-style-type: none"> a. Store intelligence information on enemy targets. b. Data used in fire planning. 2. Process Target Information Received by Voice <ol style="list-style-type: none"> a. Select and display ATI;CDR message. <ol style="list-style-type: none"> 1) Select ATI;CDR message format. <ol style="list-style-type: none"> a) Depress format matrix switches. b) Activate FORMAT COMMAND switch. 2) Select ATI;DIR message format. <ol style="list-style-type: none"> a) Depress format matrix switches. b) Activate FORMAT COMMAND switch. c) Move cursor to letter C. d) Activate FORMAT SELECT switch. b. Identify entries for target location information. <ol style="list-style-type: none"> 1) AGCY 2) CORD 3) TYPE 4) SIZE c. Transmit to Div Arty. | <ol style="list-style-type: none"> 2001 State the purpose and use of ATI messages. 2002 Process target location information (grid coordinates) received by voice communication from an FO. |
|--|--|

- | | |
|--|---|
| <p>3. Request Target Information from Div Arty</p> <p>a. Select and display ATI;SRI message.</p> <p style="padding-left: 40px;">1) Depress format matrix switch.</p> <p style="padding-left: 40px;">2) Activate FORMAT COMMAND switch.</p> <p>b. Identify entries for standing request for information.</p> <p style="padding-left: 40px;">1) CDRPT</p> <p style="padding-left: 40px;">2) CIR</p> <p>c. Transmit to Div Arty.</p> <p>d. Interpret Div Arty Acknowledgement Message.</p> <p>e. Interpret ATI;TGR output report from Div Arty.</p> | <p>2003 Request ATI data be transmitted from Div Arty to Bn automatically unless deleted, and interpret Div Arty acknowledge message and ATI;TGR output report.</p> |
|--|---|

Ammunition and Fire Unit FunctionGeneral Task/Objective (TAIS)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Purpose and Use <ol style="list-style-type: none"> a. Maintain ammunition and status data for each fire unit. b. Support fire planning. 2. Types of Data Files <ol style="list-style-type: none"> a. Fire Unit File. b. Fire Unit Planning File. 3. Update Location of Fire Unit <ol style="list-style-type: none"> a. Retrieve Fire Unit File. <ol style="list-style-type: none"> 1) Select and display AFU;COMD message format. <ol style="list-style-type: none"> a) Depress the format matrix switches. b) Activate FORMAT COMMAND switch. 2) Select AFU;DIR message format. <ol style="list-style-type: none"> a) Depress format matrix switches. b) Activate FORMAT COMMAND switch. c) Move cursor to letter C. d) Activate FORMAT SELECT switch. b. Edit Fire Unit File. <ol style="list-style-type: none"> 1) Enter FU name. 2) Specify EDIT. 3) Take computer action. | <ol style="list-style-type: none"> 3001 State the purpose and use of AFU messages. 3002 Identify the two basic AFU data files and state their function. 3003 Update the status of an active FU to indicate a new location and verify data entries. |
|---|---|

- c. Display AFU;UPDATE message on RD.
 - d. Update status of selected FU File.
 - 1) Take TRANSFER TO EDIT action.
 - 2) Enter data in AFU;UPDATE message.
 - 3) Take computer action.
 - e. Verify data for FU.
 - 1) Select and display AFU user command message.
 - 2) Specify FU name and EDIT.
 - 3) Display AFU;UPDATE on RD.
 - 4) Review AFU update message on RD for FU specified.
 - 5) Take DELETE action to remove update message from RD.
 - f. Interpret AFU;UPDATE message printed on ELP.
4. Add Ammunition Received to FU File 3004 Update the ammunition inventory for an active FU to reflect ammunition received and verify data entries.
- a. Select and display AFU;BAMOUNP message.
 - 1) Depress format matrix switches.
 - 2) Activate FORMAT COMMAND switch.
 - b. Identify entries for ammunition data.
 - 1) FU
 - 2) AMOR
 - 3) PROJA and PROJ B
 - 4) PLOT
 - c. Take computer action and identify results.

- d. Print and verify entries.
 - 1) Select and display AFU;CMD message.
 - 2) Specify PRINT and SUMS.
 - 3) Take computer action and identify results.
 - 4) Interpret AFU 2204 FU AMMO SUMMARY output message printed on the ELP.

5. Change Critical Ammunition Level and Available Supply Rate
 - a. Select and display AFU;AMOL message.
 - 1) Depress format matrix switches.
 - 2) Activate FORMAT COMMAND switch.

 - b. Identify entries for ammunition levels.
 - 1) FU
 - 2) SHELS
 - 3) FUZES

 - c. Take computer action and identify results.

 - d. Select and display AFU;ASR message.
 - 1) Depress format matrix switches.
 - 2) Activate FORMAT COMMAND switch.

 - e. Identify entries for available supply rate.
 - 1) FU or WPN
 - 2) ASRLVL

- 3005 Modify the critical ammunition level for a specific FU, set the available supply rate for the active fire units, and verify data entries.

- f. Take computer action and identify results.
 - g. Print and verify entries.
 - 1) Select and display AFU;COMD message.
 - 2) Specify PRINT and SUMS.
 - 3) Take computer action and identify results.
 - 4) Interpret AFU 2204 FU AMMO SUMMARY output message printed on the ELP.
6. Enter Current Muzzle Velocities 3006 Enter current muzzle velocities for a FU and verify data entries.
- a. Select AFU;DIR format message.
 - 1) Depress format matrix switches.
 - 2) Activate FORMAT COMMAND switch.
 - 3) Move cursor to first letter M.
 - 4) Activate FORMAT SELECT switch.
 - b. Identify entries for muzzle velocity data.
 - 1) FU name
 - 2) MV1--MV5
 - c. Take computer action and identify results.
 - d. Verify data entries.
 - 1) Select and display AFU;COMD message.
 - 2) Specify FU name and EDIT.
 - 3) Display AFU;MV on RD.
 - 4) Review AFU muzzle velocity message on RD.
 - 5) Take DELETE action to remove AFU;MV message from the RD.

<u>Support Function</u>	<u>General Task/Objective (TAIS)</u>
1. Purpose and Use	4001 State the purpose and use of SPRT messages.
a. Define geographic area within which operations take place.	
b. Align the DPM.	
c. Define geometry file data.	
2. Establish MAP MOD	4002 Establish the geographic area of interest (MAP MOD), print out and verify entries.
a. Select and display SPRT;MAP message.	
1) Select SPRT;MAP message format.	
a) Depress format matrix switches.	
b) Activate FORMAT COMMAND switch.	
2) Select SPRT;DIR message format.	
a) Depress format matrix switches.	
b) Activate FORMAT COMMAND switch.	
c) Move cursor to letter M.	
d) Activate FORMAT SELECT switch.	
b. Identify entries for map modification parameters.	
1) EAST	
2) NORTH	
3) GZ	
4) SPHERE	
c. Take computer action and identify results.	

d. Print and verify entries.

- 1) Select and display SPRT;COMD message.
- 2) Specify PRINT and MAPMOD.
- 3) Take computer action and identify results.
- 4) Interpret SPRT 7201 MAP MOD LIST output message printed on ELP.

3. Orient Map on DPM

4003 Orient a map to the digital plotter map (DPM) and verify orientation coordinates.

a. Select and display SPRT;DPM message.

- 1) Depress format matrix switches.
- 2) Activate FORMAT COMMAND switch.

b. Prepare DPM for orientation.

- 1) Press MANUAL switch on DPU.
- 2) Set marker to UP on Hand Control.
- 3) Press BRIDGE ENABLE switch on DPU.

c. Orient map on DPM and enter coordinates in SPRT;DPM message.

- 1) Orient reticle on lower left map coordinate.
- 2) Lower reticle to map surface.
- 3) Center crosshairs of reticle exactly over intersection of easting and northing coordinate line.
- 4) Raise reticle.
- 5) Press ENTER COORD switch on hand held unit.
- 6) Have ACC Operator enter coordinates in SPRT;DPM message.

- 7) Repeat above steps to obtain and identify entries for coordinates for the upper left, upper right, and lower right positions on the map, in that order.
 - 8) Press AUTO switch on DPU.
- d. Take computer action and identify results.
4. Update No Fire Line (NFL)
- 4004 Update geometry file to enter a No Fire Line (NFL), verify entries and display on DPM.
- a. Select and display SPRT;GEOM message.
 - 1) Depress format matrix switches.
 - 2) Activate FORMAT COMMAND switch.
 - b. Identify entries for NFL.
 - 1) NFL
 - 2) CORD1 - CORD3
 - c. Take computer action and identify results.
 - d. Print and verify entries.
 - 1) Select and display SPRT; COMD message.
 - 2) Specify PRINT and NFL.
 - 3) Interpret SPRT 7202 ALTER GEOMETRY FILE REPORT printed on the ELP.
 - e. Display NFL on DPM.
 - 1) Select and display SPRT;COMD message.
 - 2) Specify SHOW and NFL.

Operating System MessagesGeneral Task/Objective (TAIS)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Purpose and Use <ol style="list-style-type: none"> a. Initialize system. b. Update FDC data files. 2. Place ELP in Hold and Return to On Status <ol style="list-style-type: none"> a. Select and display SYS;PDS message. <ol style="list-style-type: none"> 1) Select SYS;PDS message format. <ol style="list-style-type: none"> a) Depress format matrix switches. b) Activate FORMAT COMMAND switch. 2) Select SYS;DIR message format. <ol style="list-style-type: none"> a) Depress format matrix switches. b) Activate FORMAT COMMAND switch. c) Move cursor to first letter P. d) Activate FORMAT SELECT switch. b. Identify procedures for HLD and ON status for paper changing operation for ELP. <ol style="list-style-type: none"> 1) Place ELP in HLD status. 2) Take C/ED CMPTR ACTION. 3) Change paper in ELP. 4) Return ELP to ON status. 5) Take C/ED CMPTR ACTION. | <ol style="list-style-type: none"> 5001 State the purpose and use of SYS messages. 5002 Perform actions to place the ELP in a hold status for paper changing operation and return ELP to online status. |
|---|---|

- | | |
|--|---|
| <p>3. Change Display Status of FM;RFAF and FM;SUBS Input Messages</p> <p>a. Select and display SYS;PCLD message.</p> <p>1) Depress format matrix switches.</p> <p>2) Activate FORMAT COMMAND switch.</p> <p>b. Identify entries for changing display status.</p> <p>1) A1 - C5</p> <p>c. Take computer action and identify results.</p> <p>d. Print and verify entries.</p> <p>1) Select and display SYS;PCLD.</p> <p>2) Specify PRINT.</p> <p>3) Take C/ED CMPTR ACTION.</p> <p>4) Interpret SYS 1201 output message.</p> | <p>5003 Change display status of FM;RFAF and FM;SUBS to display before processing and verify entries.</p> |
| <p>4. Initialize System</p> <p>a. Select and display SYS;INIT message.</p> <p>1) Depress format matrix switches.</p> <p>2) Activate FORMAT COMMAND switch.</p> <p>b. Identify entries for initializing system.</p> <p>1) TGT</p> <p>2) ID</p> <p>3) DATE</p> <p>4) TIME</p> <p>5) ALTER</p> <p>6) GO</p> | <p>5004 Take action to cause Bn TACFIRE system to be operational.</p> |

- c. Take computer action and identify results.
 - 1) Press C/ED CMPTR ACTION.
 - 2) System ready message displayed on RD and printed on ELP.
 - 3) Message notice sent to all subscribers.
 - 4) Bn TACFIRE system ready to receive input messages.

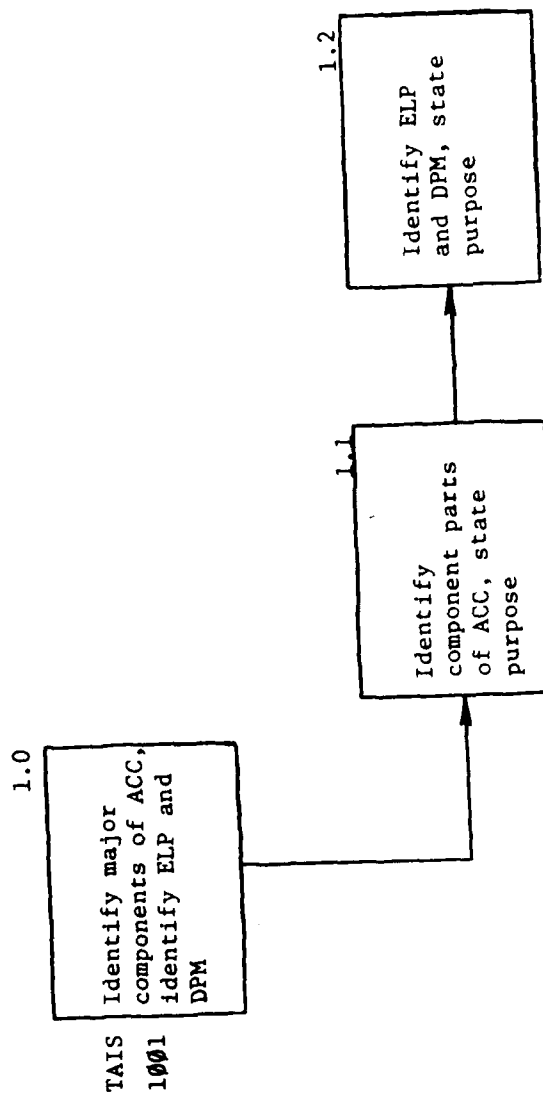
 5. Request Message Formats Using SYS;FORM Message
 - a. Enter SYS;FORM message.
 - 1) SYS
 - 2) FORM
 - 3) Requested message category and type.
 - 4) J

 - b. Take computer action and identify results.
- 5005 Request message formats using SYS;FORM message when operation of format matrix switches has temporarily failed.

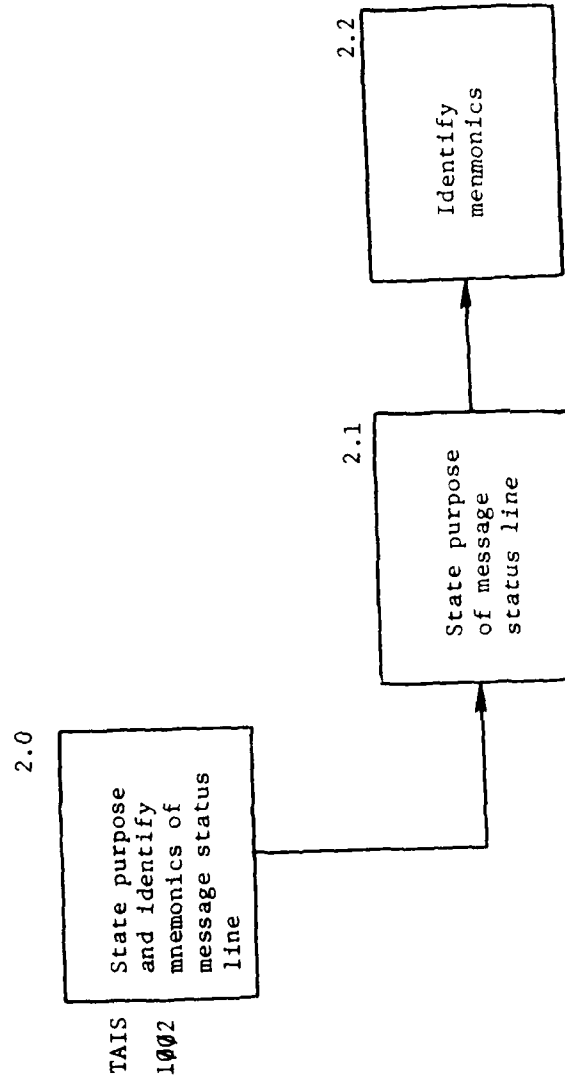
III. TASK/SUBTASK FLOW CHARTS

Task/Subtask Flow Charts have been prepared for each general task/objective established for the selected TACFIRE functional areas. The Task/Subtask Flow Charts represent the training tasks, their task elements and the relationship among them. The audit trail (e.g., 1001) for each general task/objective is maintained throughout the content development outlines (Section II), Training Analysis documentation; TALS, Criterion and Enabling Objectives, and Test Items (Section IV) and Task/Subtask Flow Charts contained within this section. Task/Subtask Flow Charts have been prepared for tasks within these functional areas:

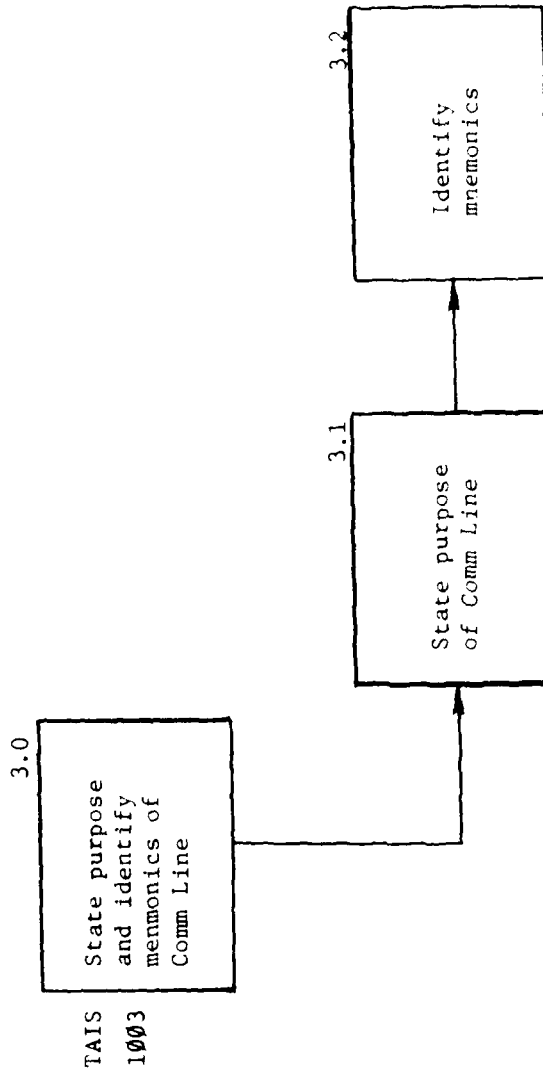
- Tactical and Technical Fire Control Function
- Artillery Target Intelligence Function
- Ammunition and Fire Unit Function
- Support Function
- Operating System Messages

Module FMTactical and Technical Fire Control Function

Module FM

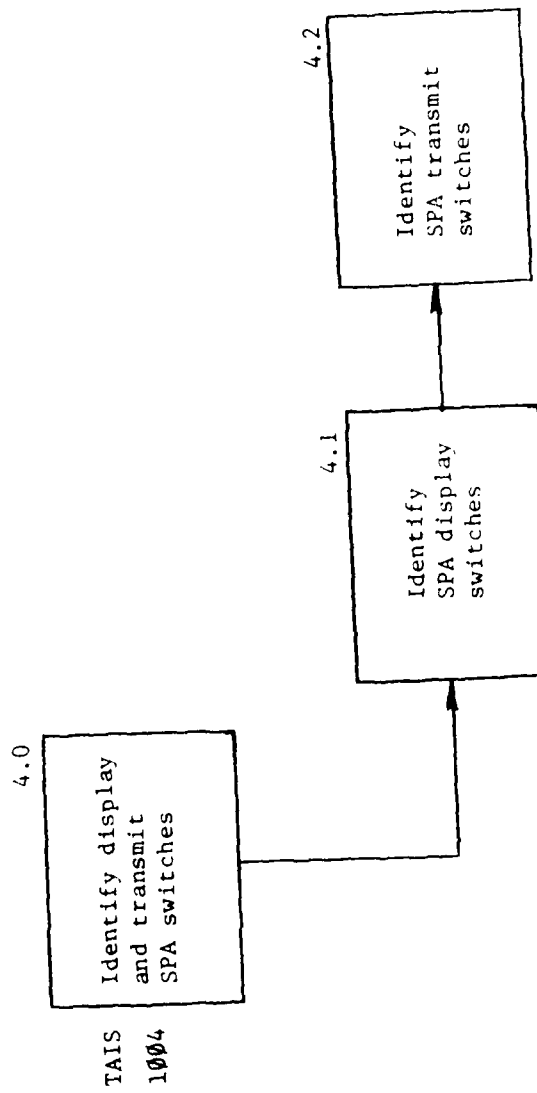
Tactical and Technical Fire Control Function, Cont'd

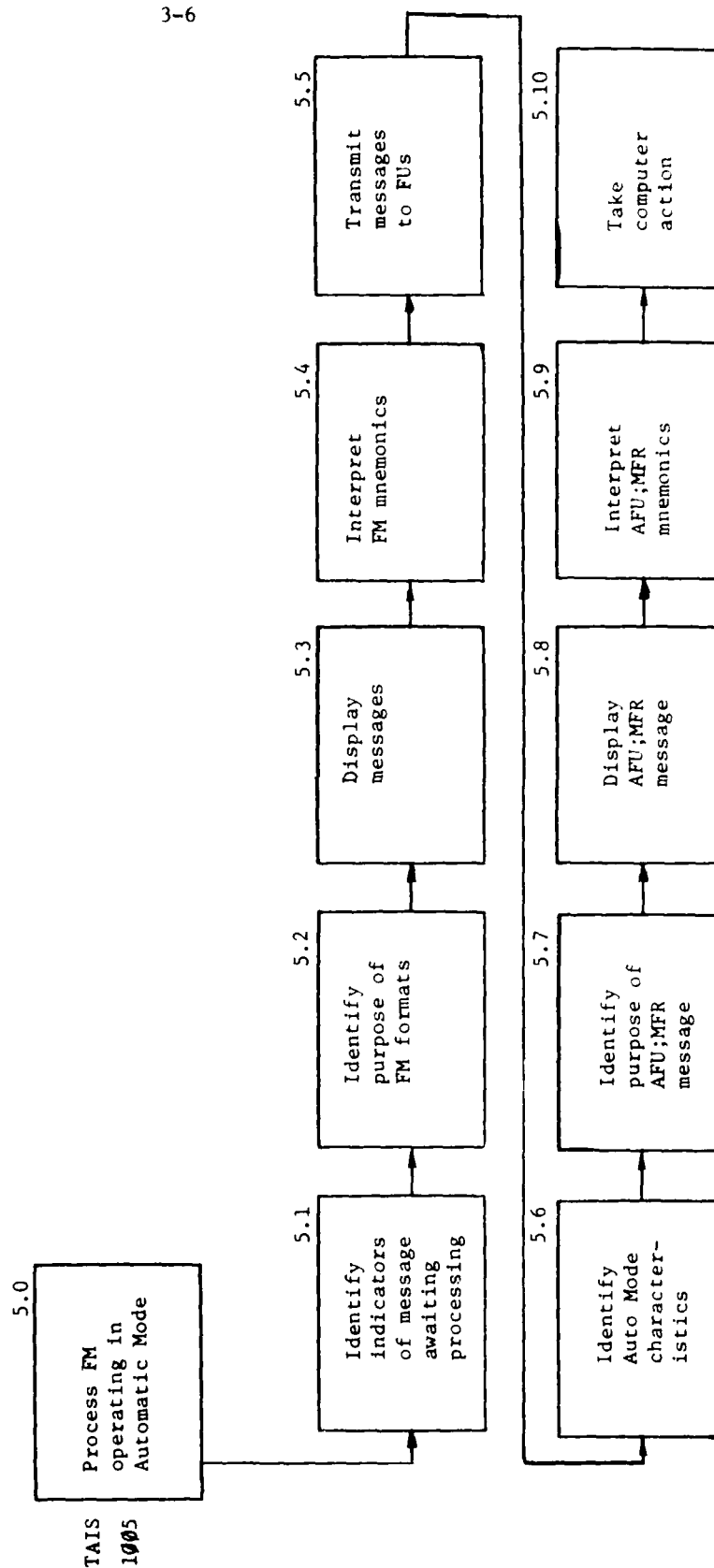
Tactical and Technical Fire Control Function, Cont'd

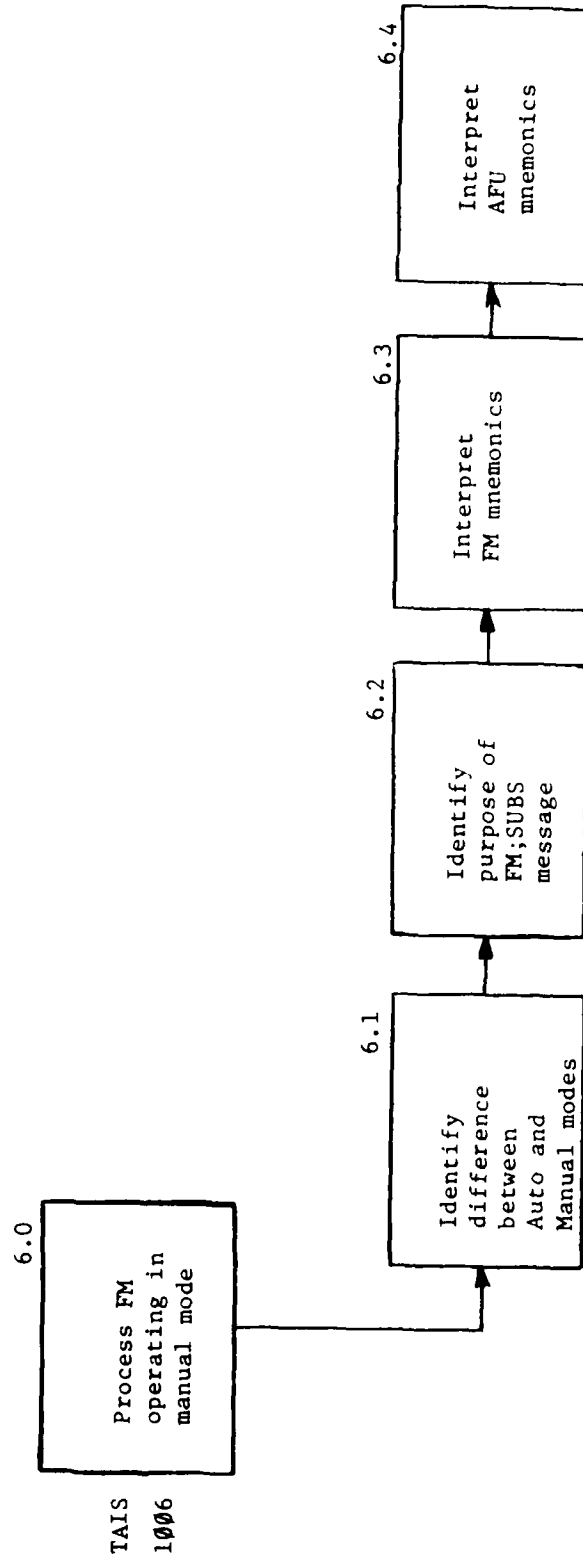


Module FM

Tactical and Technical Fire Control Function, Cont'd



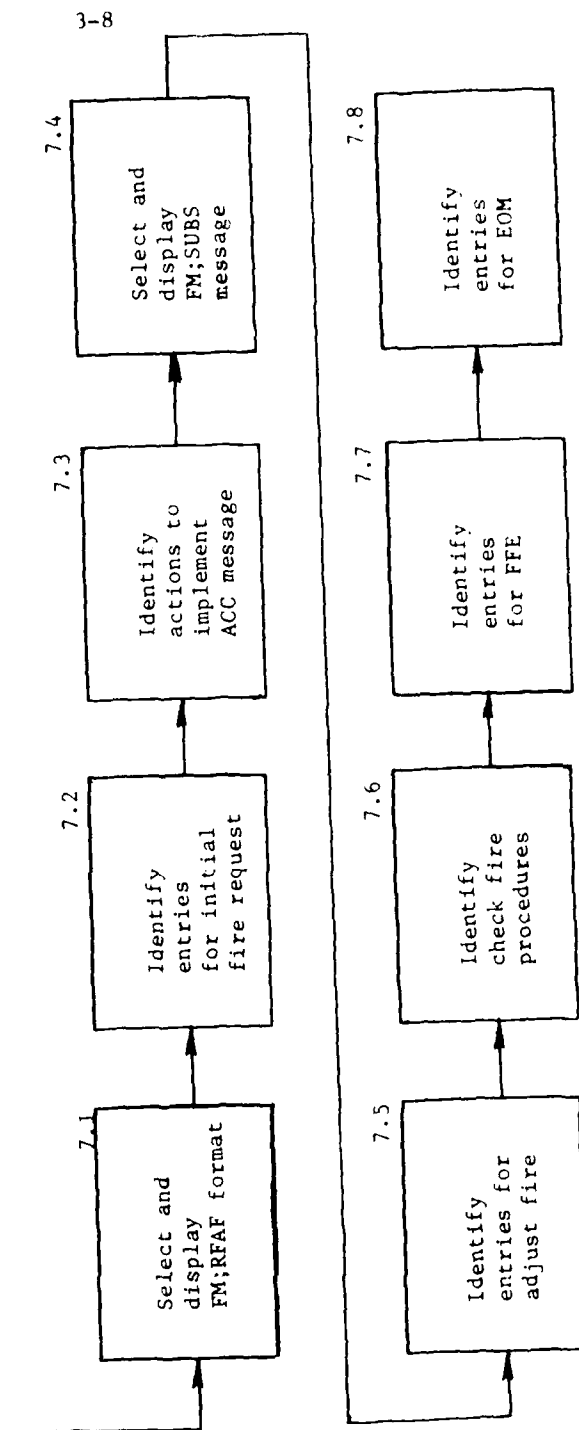


Tactical and Technical Fire Control Function, Cont'dModule FM

Tactical and Technical Fire Control Function, Cont'd

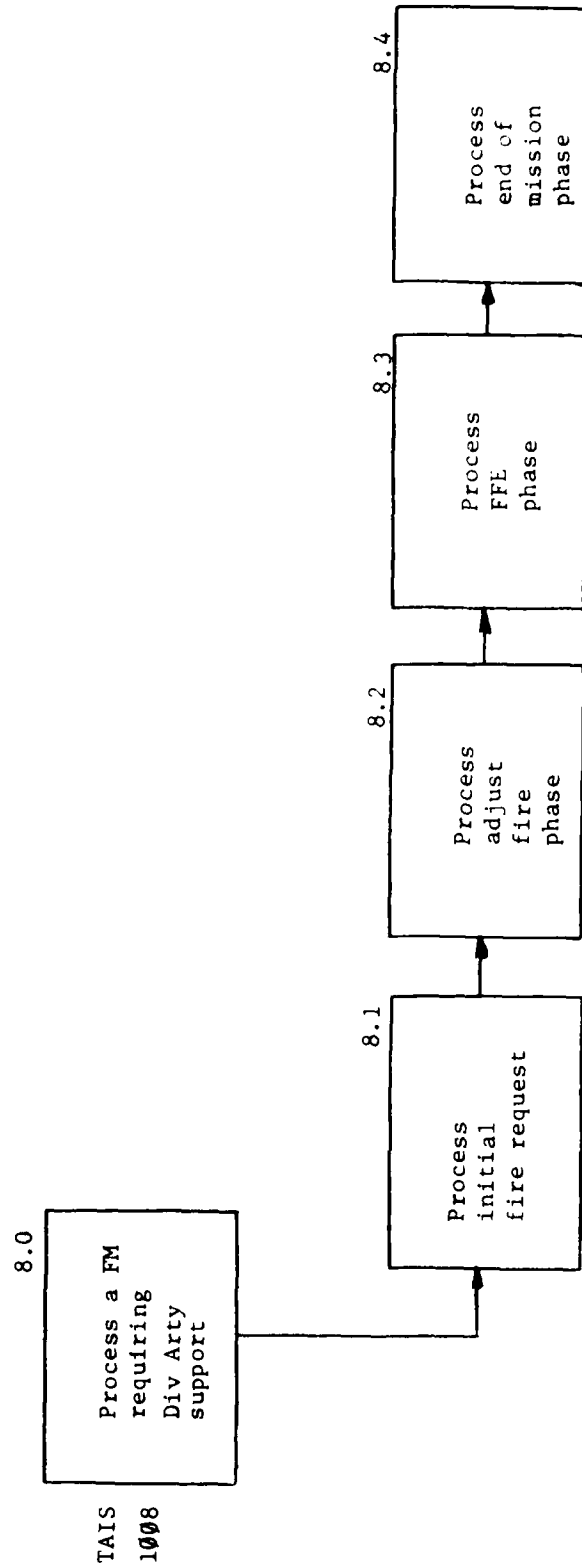
7.0
 Process a FM received
 by voice communication,
 when operating in
 manual mode, implement
 check fire using
 ACC command switches

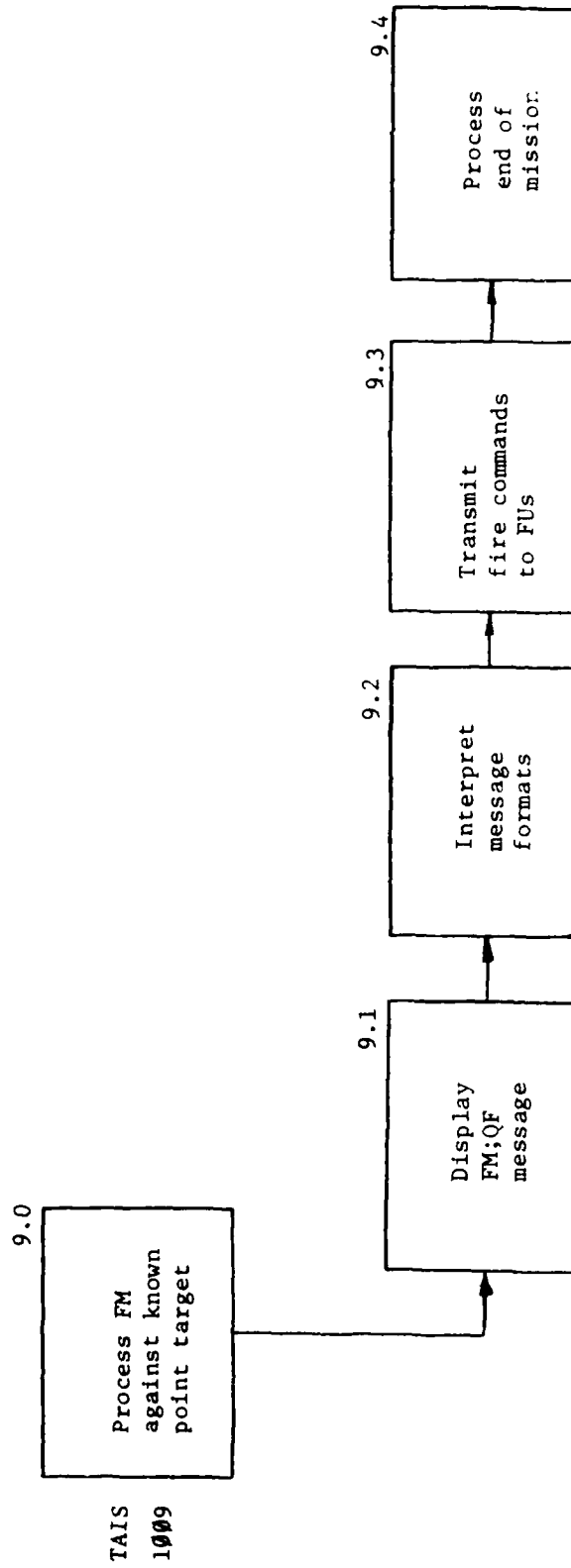
TAIS
 1007



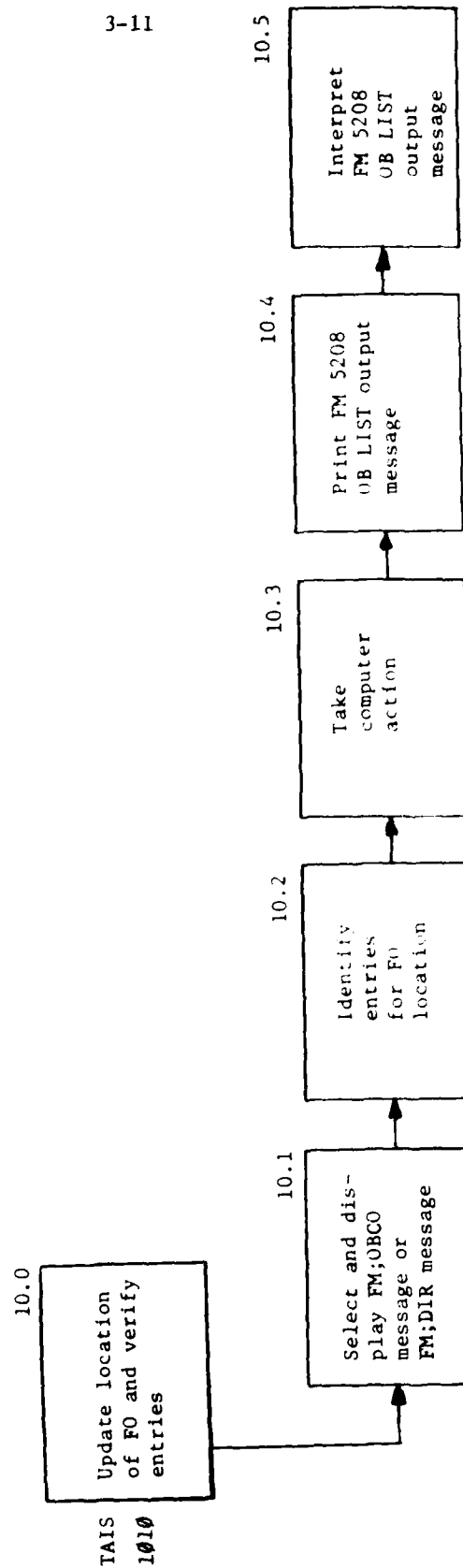
Tactical and Technical Fire Control Function, Cont'd

Module FM

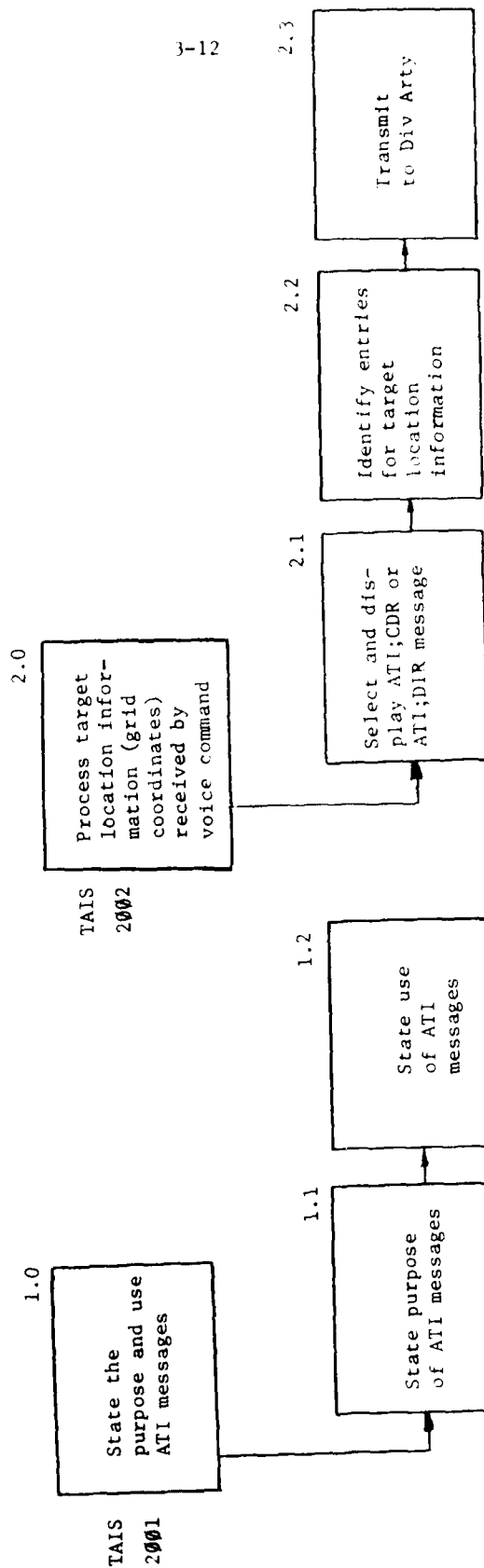


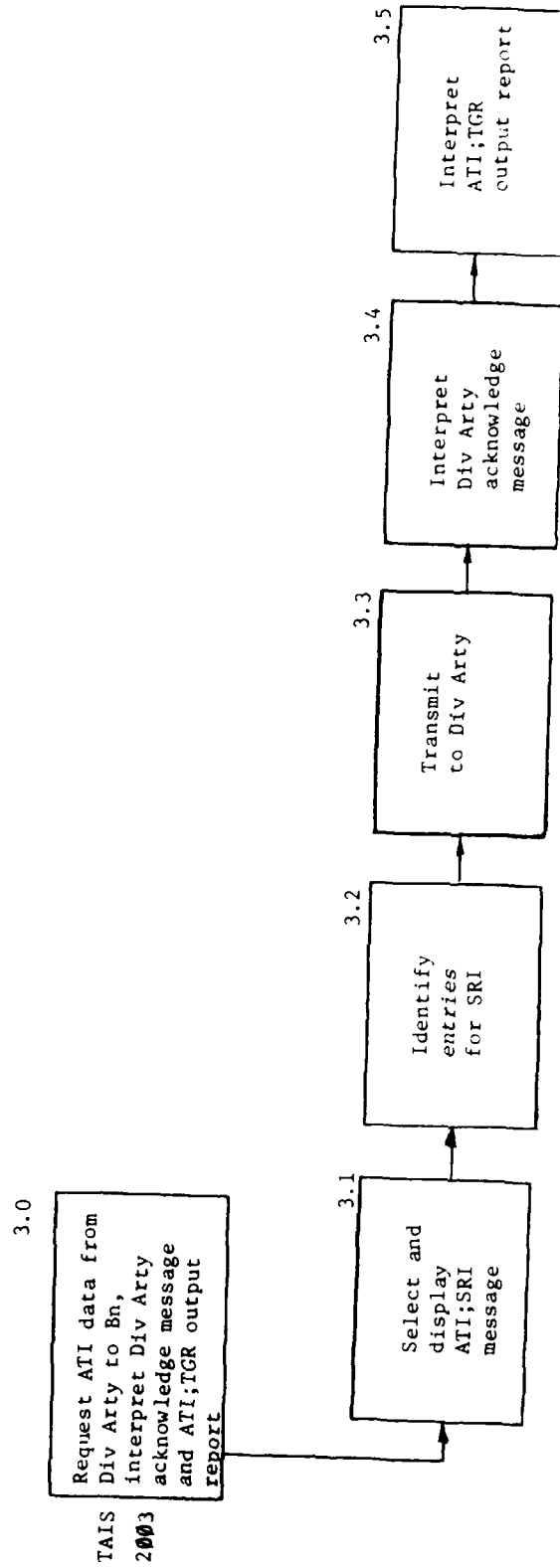
Tactical and Technical Fire Control Function, Cont'dModule FM

Tactical and Technical Fire Control Function, Cont'd

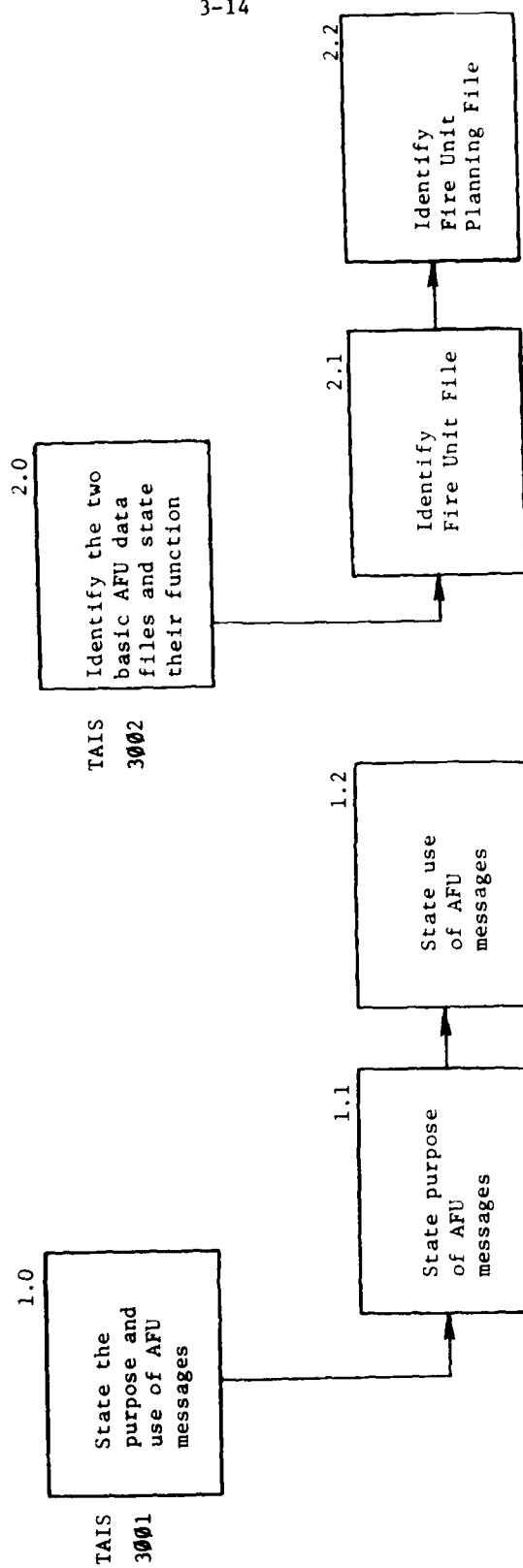


Artillery Target Intelligence Function



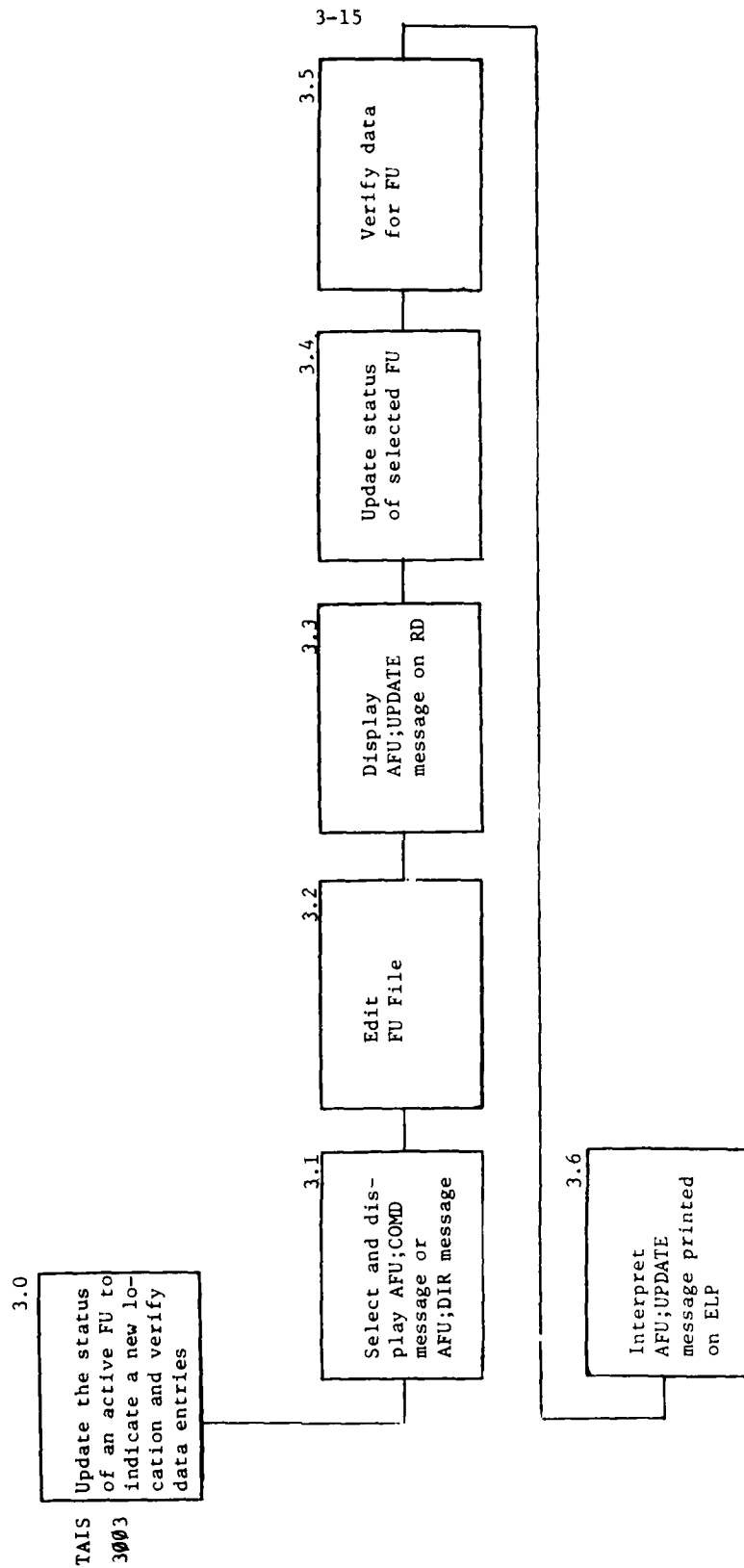
Module ATIArtillery Target Intelligence Function, Cont'd

Ammunition and Fire Unit Function

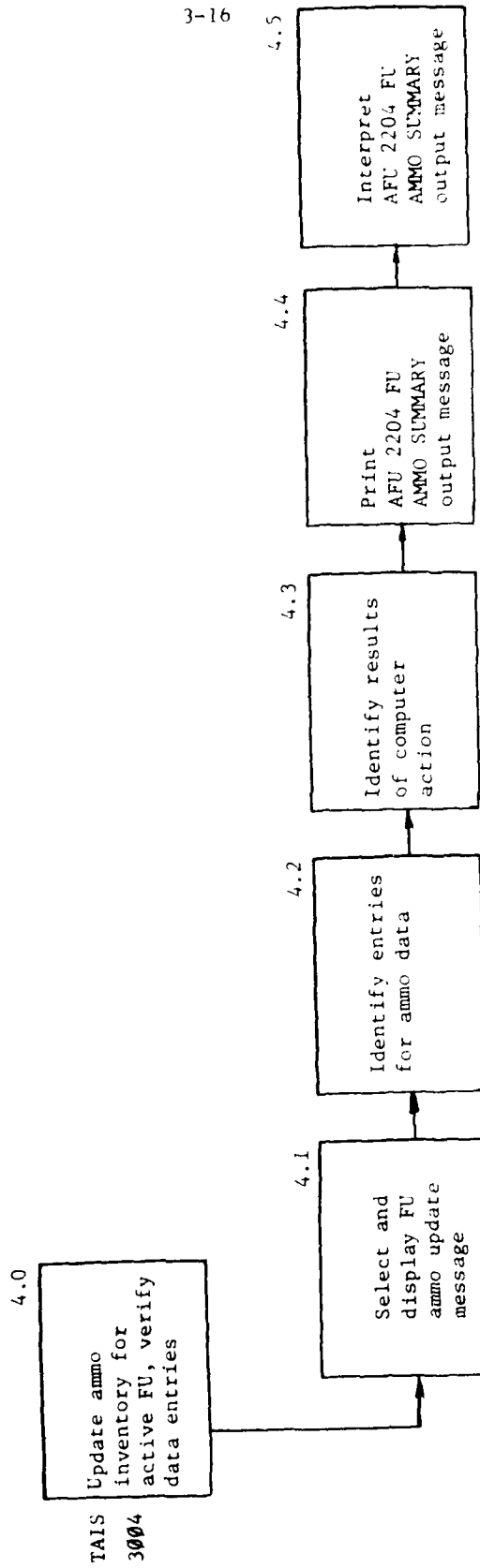


Armament and Fire Unit Function, Cont'd

Module AFU

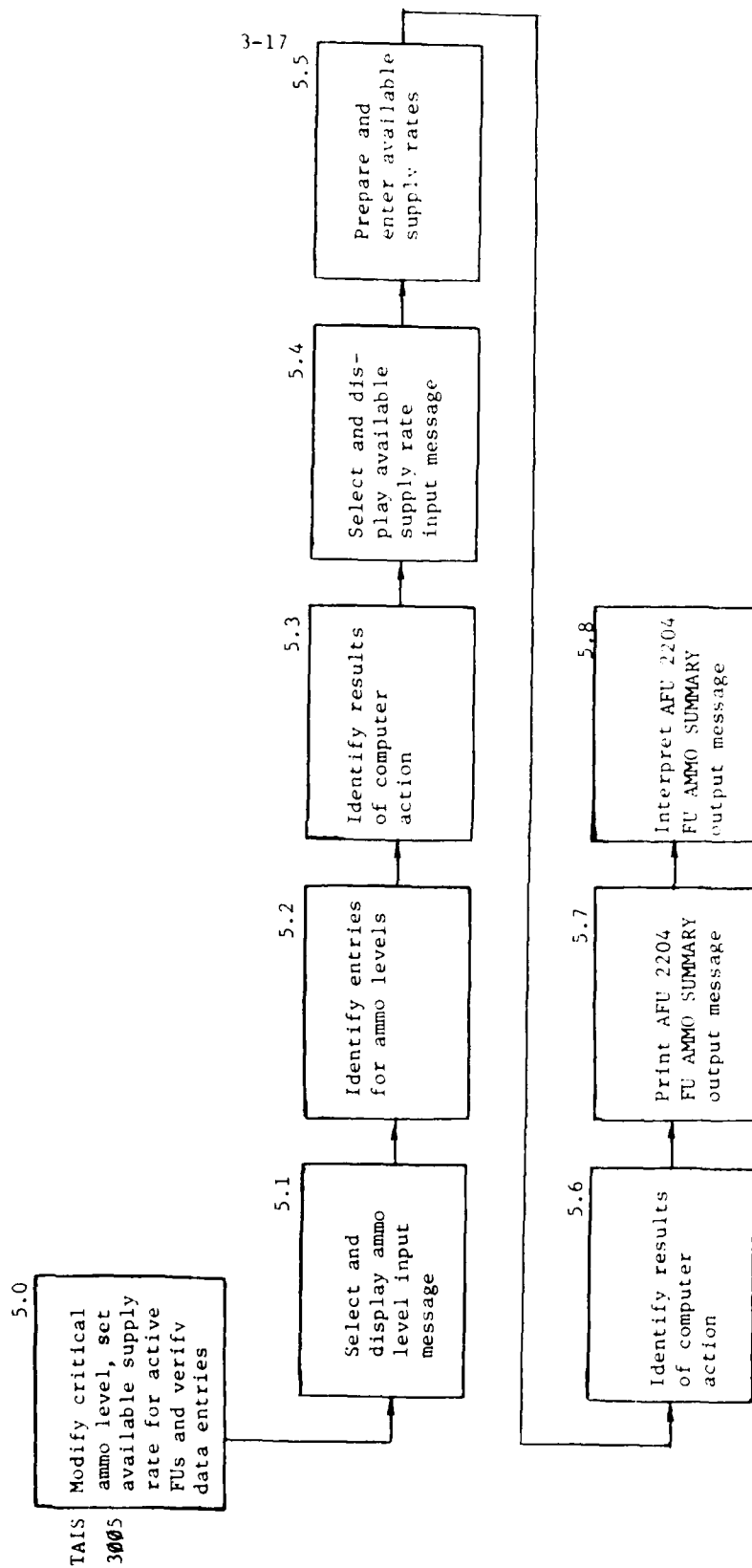


Ammunition and Fire Unit Function, Cont'd



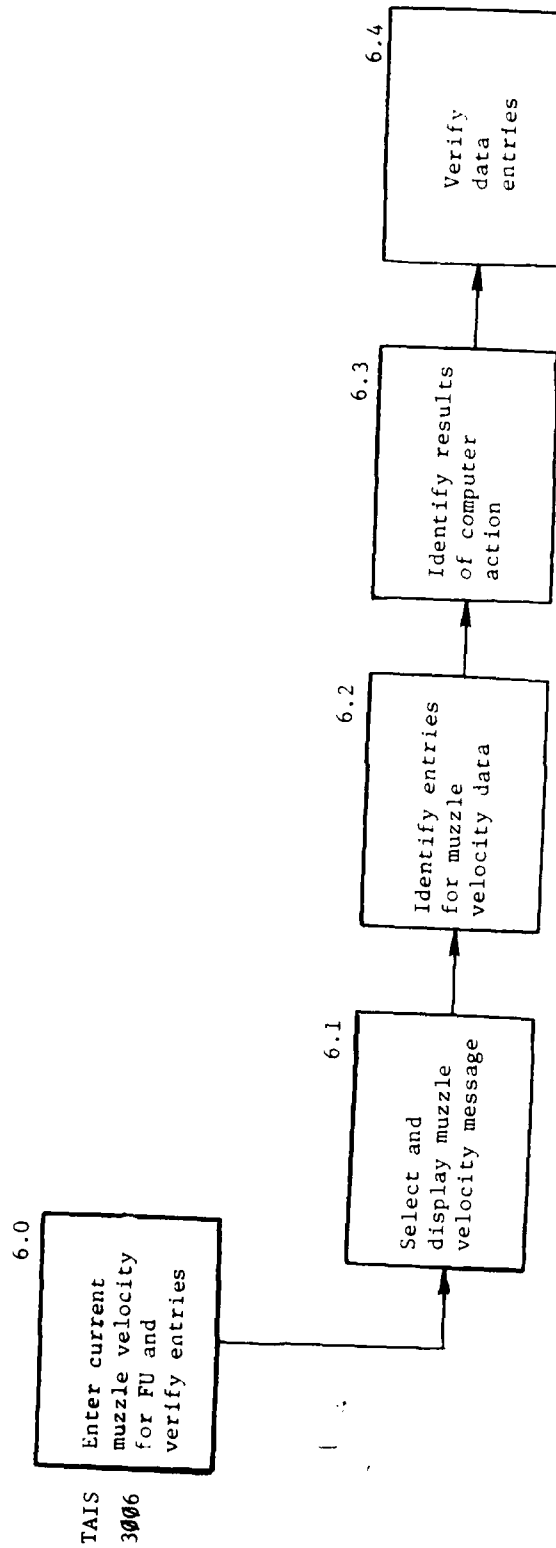
Ammunition and Fire Unit Function, Cont'd

Module AFU



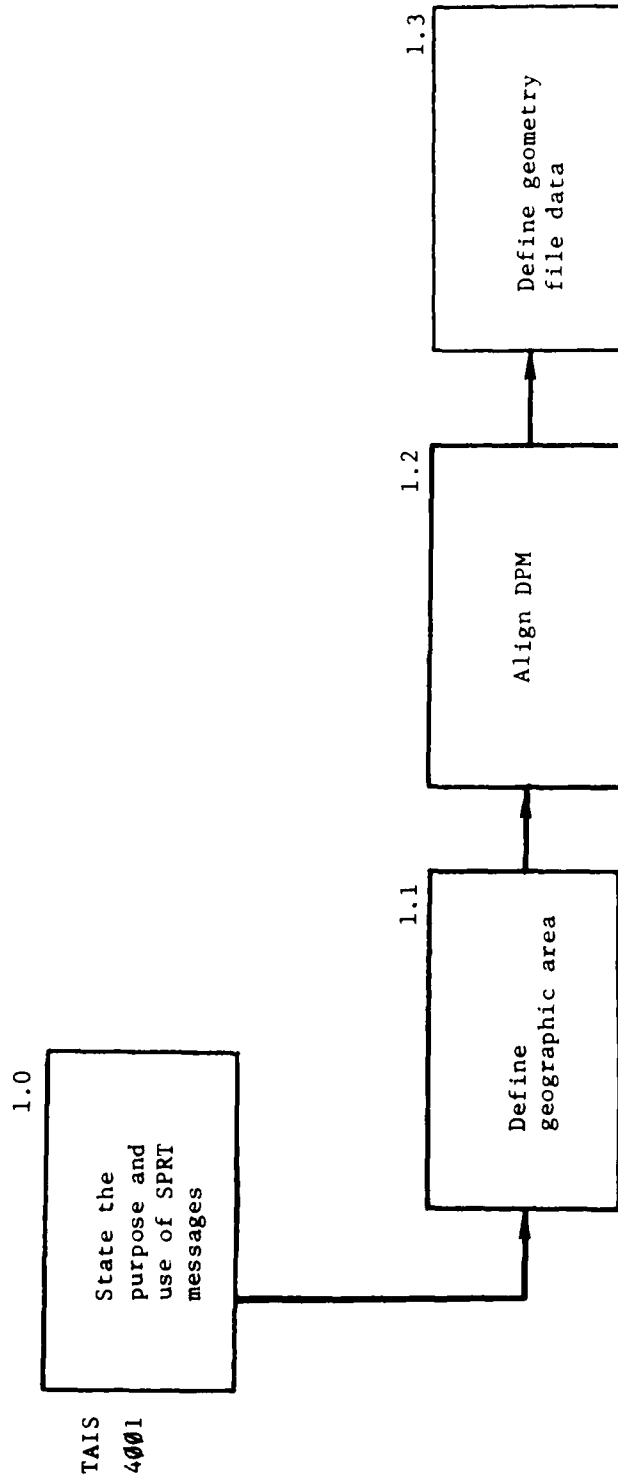
Ammunition and Fire Unit Function, Cont'd

Module AFU



Module SPRT

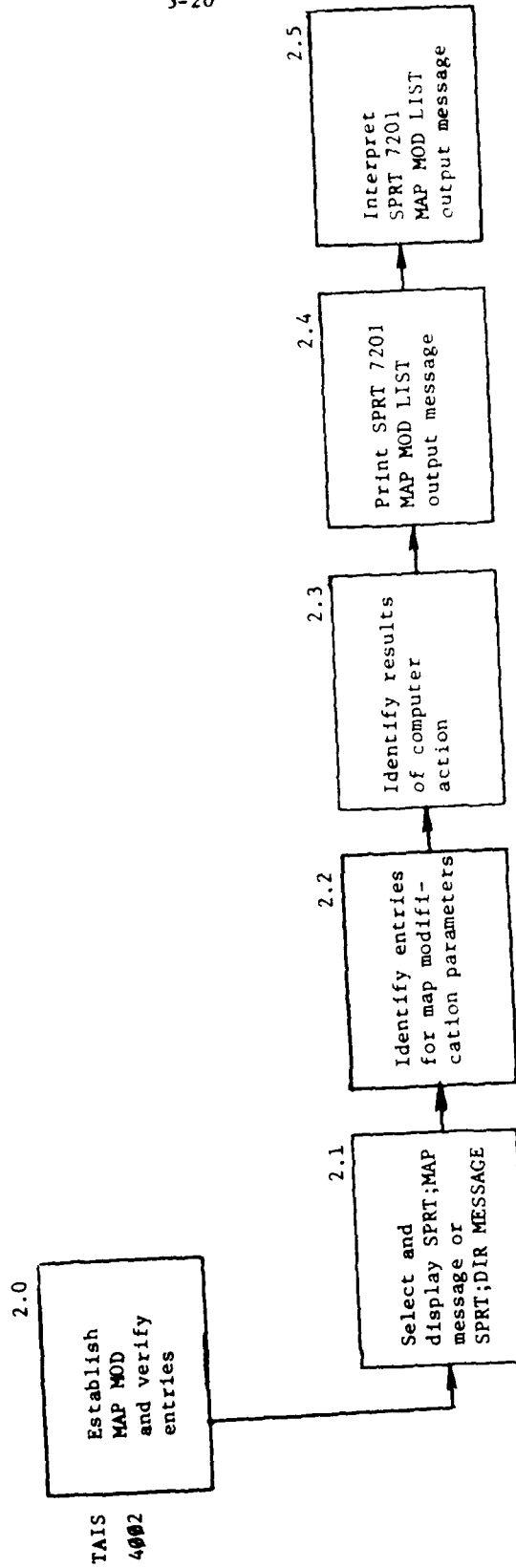
Support Function

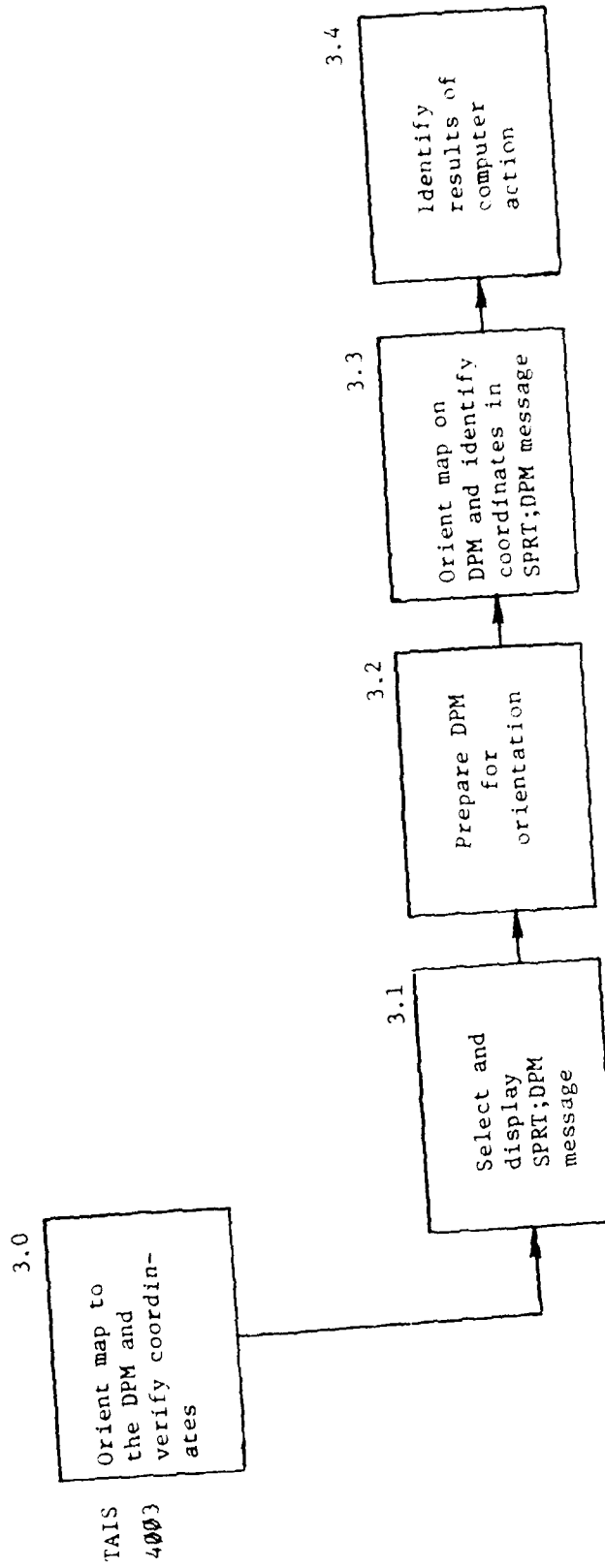


TAIS
4001

Module SPRT

Support Function, Cont'd

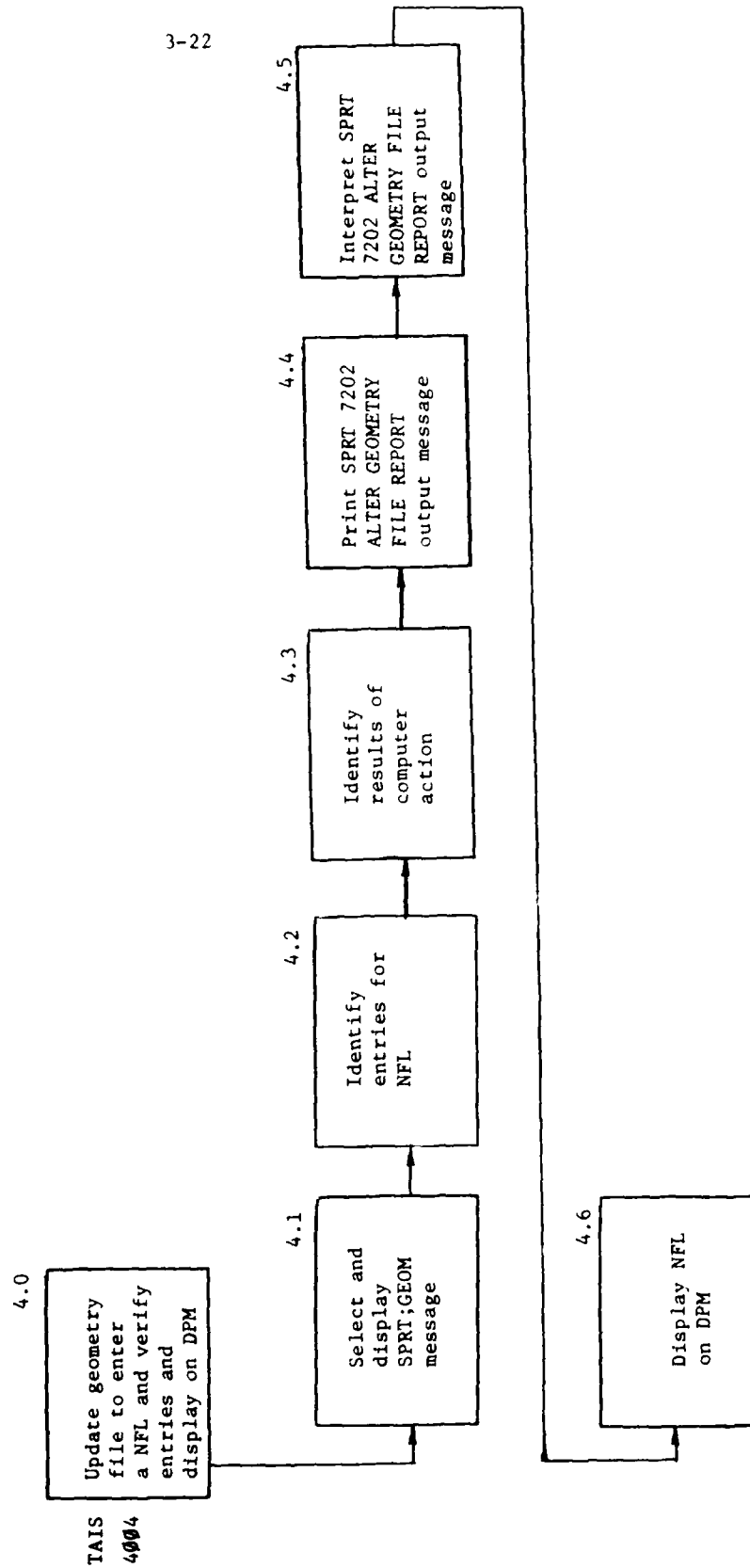


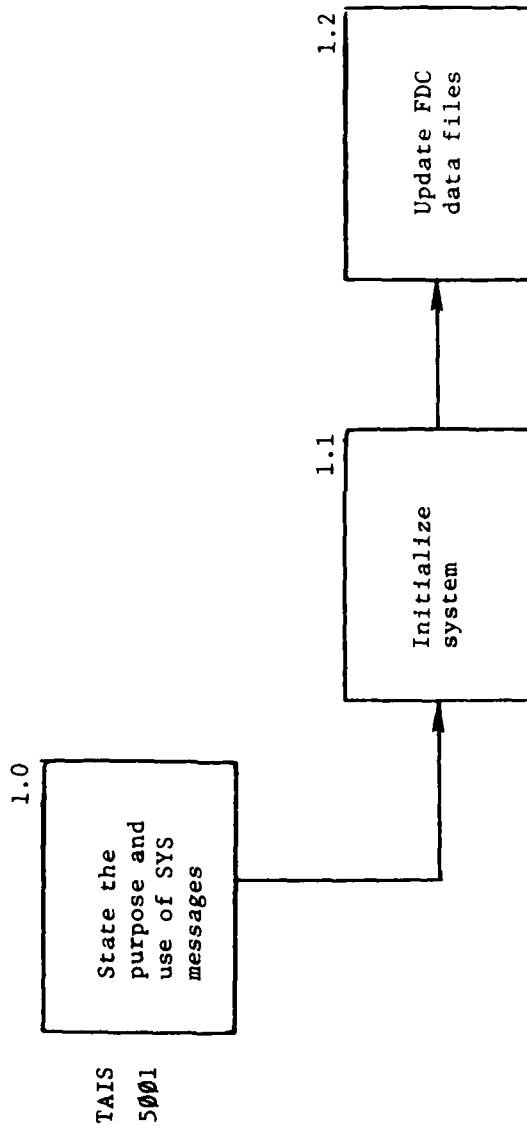
Module SPRTSupport Function, Cont'd

Support Function, Cont'd

Module SPRT

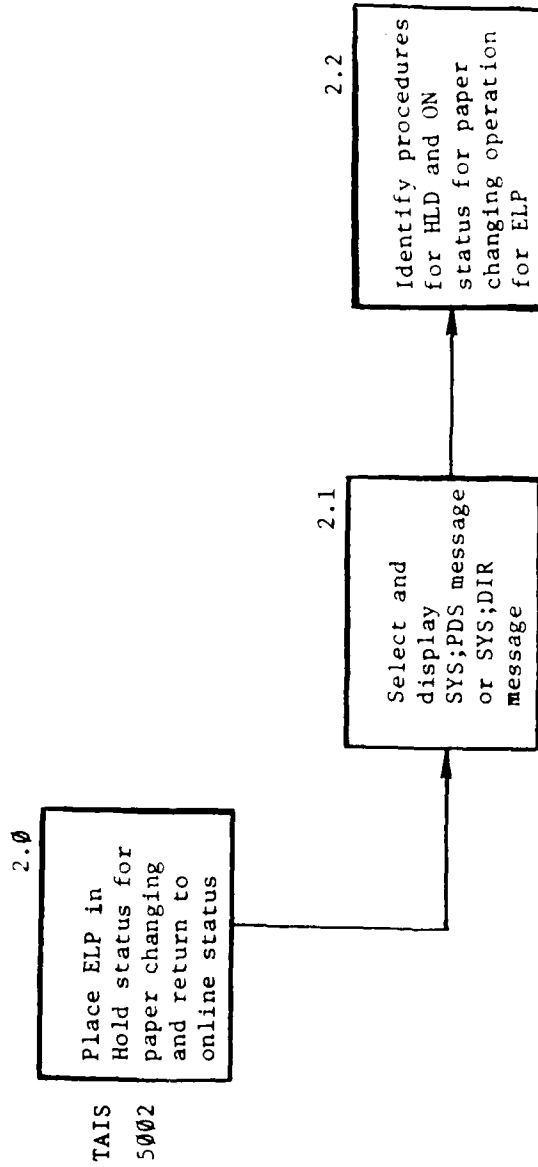
3-22



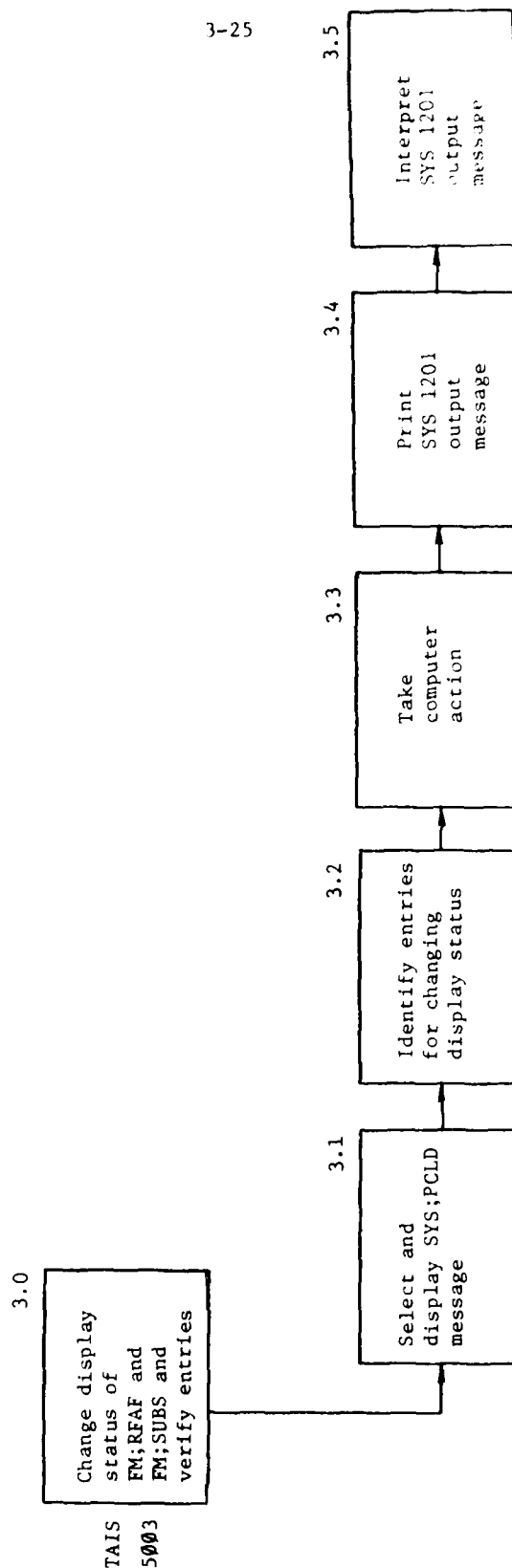
Module SYSOperating System Messages

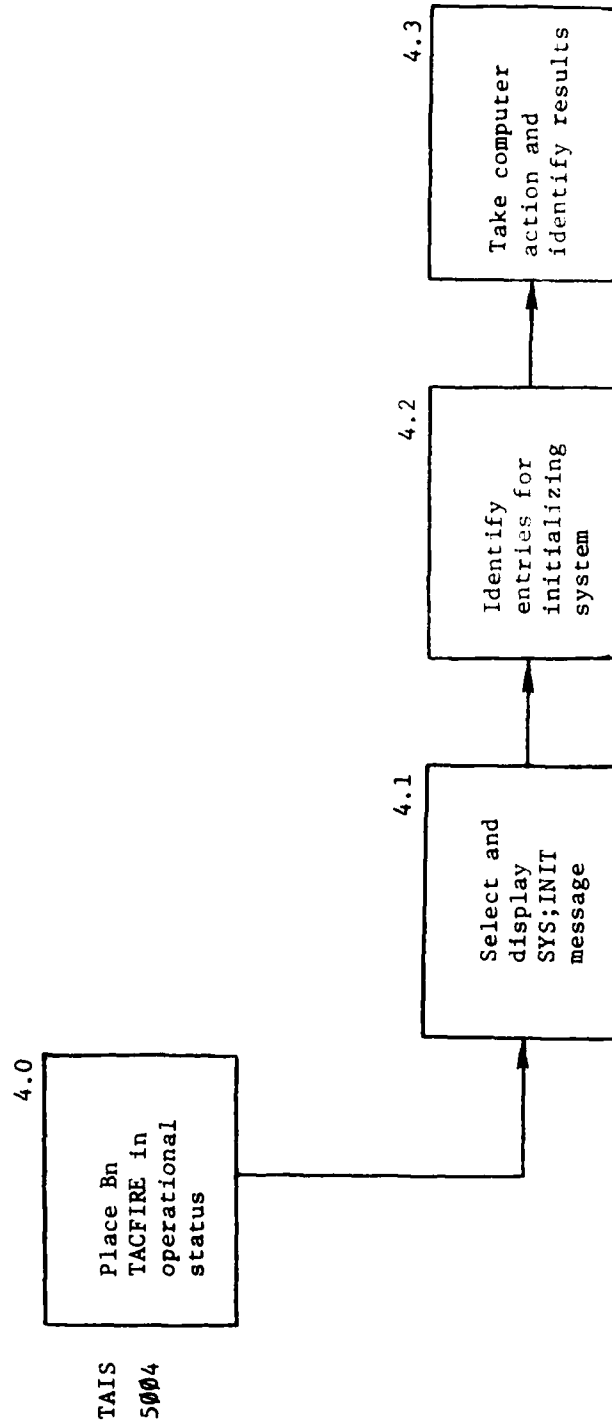
Operating System Messages, Cont'd

Module SYS



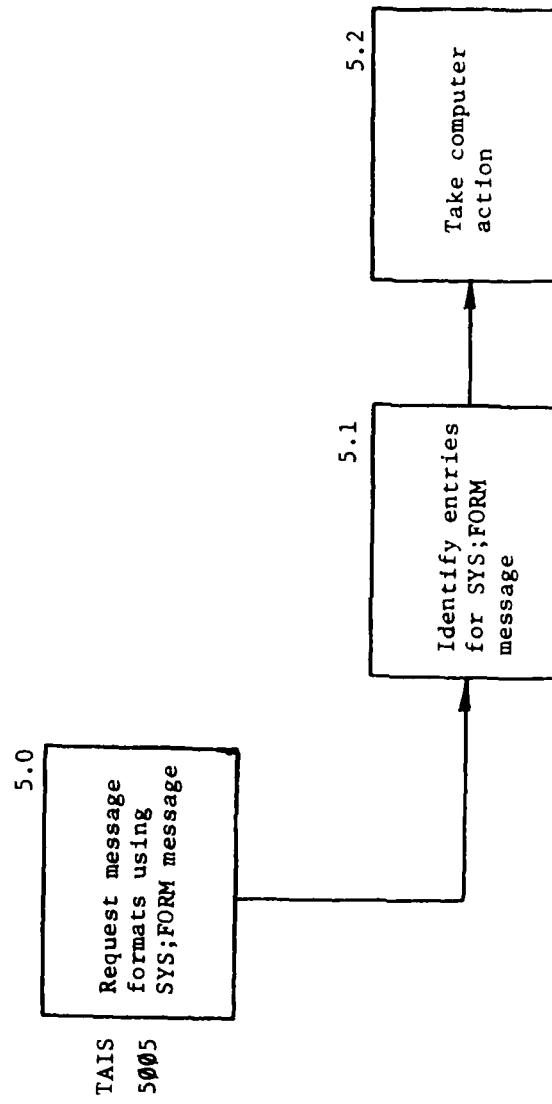
Operating System Messages, Cont'd



Module SYSOperating System Messages, Cont'd

Module SYS

Operating System Messages, Cont'd



IV. TRAINING ANALYSIS RESULTS

This section contains the TACFIRE Training Results documentation which comprises the Training Analysis Information Sheets (TAIS), Criterion and Enabling Objectives Worksheets and Test Item Worksheets for each general task/objective specified for the five functional TACFIRE areas. The audit trail (e.g., 1001) for each general task/objective is maintained throughout the content development outlines (Section II), Task/Subtask Flow Charts (Section III) and Training Analysis documentation contained within this section.

Training Analysis documentation has been prepared for tasks within these functional areas:

- Tactical and Technical Fire Control Function
- Artillery Target Intelligence Function
- Ammunition and Fire Unit Function
- Support Function
- Operating System Messages

A. TACFIRE MODULE-UNIT-TAIS CORRESPONDENCE

<u>TAIS</u>	<u>UNIT</u>	<u>Page</u>
Module 1: Tactical and Technical Fire Control Function (FM)		4-4
1001	ACC - Artillery Control Console	
1002	MSL - Message Status Line	
1003	CL - Communication Line	
1004	SPA - SPA Switches	
1005	FM1 - FM Automatic Mode	
1006	FM2 - FM Manual Mode	
1007	FM3 - FM Voice Input	
1008	FM4 - FM Div Arty Support	
1009	QF - FM;QF - Quick Fire Mission	
1010	OBCO- FM;OBCO - Observer Location	
Module 2: Artillery Target Intelligence Function (ATI)		4-76
2001	INTRO-Introduction to Artillery Target Intelligence	
2002	CDR - ATI;CDR - Coordinate Report	
2003	SRI - ATI;SRI - Standing Request for Information	
Module 3: Ammunition and Fire Unit Function (AFU)		4-93
3001	INTRO - Introduction to Ammunition and Fire Unit Function	
3002	INTRO - AFU Data Files	
3003	UPDATE - AFU;UPDATE - Fire Unit Update	
3004	BAMOUNP - AFU;BAMOUNP - Fire Unit Ammuni- tion Update	
3005	AMOL/ASR - AFU;AMOL - Critical Ammunition Level - AFU;ASR - Available Supply	
3006	MV - AFU;MV - Muzzle Velocity	

<u>TAIS</u>	<u>UNIT</u>	<u>Page</u>
Module 4: Support Function (SPRT)		4-136
4001	INTRO-Introduction to Support Function	
4002	MAP -SPRT;MAP - Map Modification	
4003	DPM -SPRT;DPM - Orientation	
4004	GEOM -SPRT;GEOM - Alter Geometry File	
Module 5: Operating System Messages (SYS)		4-165
5001	INTRO-Introduction to System Messages	
5002	PDS -SYS;PDS - Peripheral Device Status	
5003	PCLD -SYS;PCLD - Priority, Classification Logging and Display	
5004	INIT -SYS;INIT - Initialization	
5005	FORM -SYS;FORM - Format	

B. TOPIC DOCUMENTATION FOR SELECTED TACFIRE FUNCTIONS

Training Analysis Information Sheets, Criterion and Enabling Worksheets and Test Item Worksheets for each TAIS identifier are organized as a group. Documentation comprising each group are sequentially ordered (e.g., 1001, 1002, etc.) as are the modules identified in A, above.

Module 1: *Tactical and Technical Fire Control Function* (FM)

TAIS No. 1001MODULE FMUNIT ACC

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 1.0
2. TASK: Identify the major components of the ACC and state their purpose and identify the ELP and DPM.
3. CONDITIONS: Given pictures of the ACC with arrows and associated letters pointing to major component parts, identify the part from a list of component parts and state its function.

Given pictures of the ELP and DPM, identify each TACFIRE piece of equipment and state its function.

4. STANDARD: No errors.

5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
1.1 Identify the major component parts of the ACC and state their purpose.	1.1 None. 1.2 None.	1. Picture of ACC. 2. Picture of ELP and DPM. 3. Additional material to be developed as required.	DTM 11-7440-240-10 Chapter 3, Pages 3-29 through 3-102. Chapter 9, Pages 9-1 through 9-93; 9-119 through 9-185; 9-209 through 9-240.
1.2 Identify ELP and DPM and state their purpose.			

TAIS No. 1001MODULE FMUNIT ACC

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1 - 1.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>1.1 A. When given a picture of the ACC with component parts marked by letters and arrows, the student can match the letters with the correct name from a list of component parts. The letter and component part associations are as follows:</p> <ol style="list-style-type: none"> 1. Receive Display (RD) - A 2. Compose/Edit Display (CED) - B 3. ACC Alphanumeric Keyboard - C 4. Switch Panel Assembly (SPA)- D <p>B. The student can match the ACC component part with its function. The associations are as follows:</p> <ol style="list-style-type: none"> 1. RD - Display incoming messages. 2. CED - Display message formats or messages to be completed, changed or edited. 3. ACC keyboard - Enter changes in message formats. 4. SPA - Provides the ACC operator manual control of computer activities. 	

TAIS No. 1001MODULE FMUNIT ACC

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1 - 1.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>1.2 A. When given pictures of the ELP and DPM, the student can correctly identify the TACFIRE equipment with the corresponding picture. The equipment/picture associations are:</p> <p>ELP - Figure (2)</p> <p>DPM - Figure (3)</p> <p>B. The student can match the TACFIRE equipment with its function. The associations are:</p> <ol style="list-style-type: none"> 1. ELP - Prints out <u>all</u> incoming and outgoing Bn computer messages. 2. DPM - Draw symbols on an artillery map. 	

M/S No. 1001

MODULE FM
UNIT ACC

TEST ITEMS

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1 - 1.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>1.1 A. Refer to Figure _____ which shows an Artillery Control Console (ACC). Select the letter which identifies each of the following component parts:</p> <p>ACC Keyboard <u>(C)</u></p> <p>Receive Display <u>(A)</u></p> <p>Switch Panel Assembly <u>(D)</u></p> <p>Compose/Edit Display <u>(B)</u></p> <p>B. Match the ACC component part with its function.</p> <p>1) Display messages to be completed, changed or edited.</p> <p>2) Enter changes in message formats.</p> <p>3) Display incoming messages.</p> <p>4) Provide the ACC operator manual control of computer activities.</p> <p>ACC keyboard <u>(2)</u></p> <p>RD <u>(3)</u></p> <p>SPA <u>(4)</u></p> <p>CED <u>(1)</u></p>	

ENIS No. 1001

MODULE FM
UNIT ACC

TEST ITEMS

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1 - 1.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>1.2 Refer to Figures (2) and (3). Each picture shows a piece of TACFIRE equipment. First identify the equipment in each picture and then match its primary function from the list below.</p> <p>A. Draws symbols on an artillery map.</p> <p>B. Displays status of computer.</p> <p>C. Prints out all incoming and outgoing Bn computer messages.</p> <p>D. Displays tactical data electronically.</p> <p>Figure (3) <u>(DPM)</u> Function <u>(A)</u></p> <p>Figure (2) <u>(ELP)</u> Function <u>(C)</u></p>	

TAIS No. 1002MODULE FMUNIT MSL

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 2.0
2. TASK: State the purpose and identify mnemonics of the message status line.
3. CONDITIONS: Given different formatted test items concerning the purpose and identity of message status line mnemonics, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
2.1 State purpose of message status line.	2.1 None.	1. Picture/ drawing of the message status line.	DTM 11-7440- 240-10
2.2 Identify mnemonics.	2.2 None.	2. Additional material to be developed as required.	Chapter 3 Pages 3-29 through 3-102. Chapter 9 Pages 9-1 through 9-93; 9-119 through 9-185; 9-209 through 9-240.

TAIS No. 1002MODULE FMUNIT MSL

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>2.1 The student is able to pick from a list the purposes of the message status line as being:</p> <ul style="list-style-type: none"> a. To indicate the status of messages awaiting action. b. To indicate general information concerning the operating condition of the system. <p>2.2 Given a picture of a message status line, the student can match message status line mnemonics with their purposes as being:</p> <ul style="list-style-type: none"> a. MSG - number of messages awaiting operator action. b. FM - number of fire missions awaiting processing. c. ERR - number of error messages awaiting display. d. DM - entry indicates that one or more peripheral devices or memory banks is offline. e. ACT - number of jobs active by priority. <p>Note: Explanation of additional mnemonics will be included within the instructional material for student review.</p>	<p>2.2.1 Pick from a list where the message status line is displayed as being: 1ST LINE OF THE RD.</p>

TAIS No. 1002

MODULE FM
UNIT MSL

TEST ITEMS

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>2.1 The purposes of the message status line are:</p> <ul style="list-style-type: none"> *a. To indicate the status of messages awaiting action. b. To provide general information about each segment of a message. *c. To indicate general information concerning the operating condition of the system. d. To indicate the status of the ACC. <p><u>(a,c)</u></p>	<p>2.2.1 To be as convenient as possible for ACC operator use, the message status line is displayed as the:</p> <ul style="list-style-type: none"> a. 1st line on the CED. *b. 1st line on the RD. c. 1st line of the message. d. Not displayed unless ILL SW ACTION switch is depressed.
<p>2.2 Refer to Figure _____ which shows a message status line as it would appear on the RD. (Message status line to be constructed as follows:)</p> <p>MSG:10;FM: 4;ERR: 1;DM: ;ACT0001000; NAK: , , , , ;TRK ;OVLY</p> <ul style="list-style-type: none"> a. How many messages are awaiting processing? <u>(10)</u> b. How many fire missions are awaiting processing? <u>(4)</u> c. How many error messages are awaiting display? <u>(1)</u> d. Does the message status line indicate that any memory devices are offline? (Yes/<u>No</u>) e. Are there any active jobs being processed by the computer? (Yes/<u>No</u>) 	

TAIS No. 1003MODULE FM
UNIT CL

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 3.0
2. TASK: State the purpose and identify mnemonics of the communication line.
3. CONDITIONS: Given different formatted test items concerning the purpose and identity of communication line mnemonics, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
2.1 State the purpose of the communication line.	2.1 None.	1. Picture/ drawing of communication line.	DTM 11-7440 240-10
2.2 Identify mnemonics.	2.2 None.	2. Additional material to be developed as required.	Chapter 3 Pages 3-29 through 3-102. Chapter 9 Pages 9-1 through 9-33; 9-119 through 9-185; 9-209 through 9-240.

TAIS No. 1003MODULE FMUNIT CL

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
3.1 The student is able to pick from a list the purpose of the communication line as being: TO PROVIDE GENERAL INFORMATION ABOUT ITS MESSAGE SEGMENT.	3.1.1 State IS NOT DISPLAYED as being the normal display status of the communication line when a message is being displayed.
3.2 The student can interpret the communication line elements:	3.1.2 Pick from a list the SPA switch action to take to display the communication line as being: DEPRESS ILL SW ACTION SWITCH.
a. Header - CODED 7 CHARACTER INFORMATION ELEMENT	3.1.3 Select from a list the position in the message where the communication line will display after the ILL SW ACTION switch is depressed as being: 1ST LINE OF EACH MESSAGE SEGMENT.
b. P - PRIORITY OF SEGMENT	
c. SB - SUBSCRIBER OR RECEIVER OF SEGMENT	
d. C - SECURITY CLASSIFICATION	
e. SG - SEGMENT NUMBER AND NUMBER OF SEGMENTS	
f. DT - DATE, HOUR, MINUTE, AND SECOND OF MESSAGE SEGMENT	
g. ID - IDENTIFICATION NUMBER	
h. A - AUTOMATIC MODE OF PROCESSING	

TAIS No. 1003MODULE FMUNIT CL

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.1 The purpose of the communication line is to provide the ACC operator:</p> <ul style="list-style-type: none"> a. General information about the status of the operating system. b. Information about messages awaiting operator action. c. Information about digital and vocal communication lines. *d. General information about its message segment. <p>3.2 Refer to Figure _____ which shows a communication line for a message as it would appear if displayed. (Communication line to be constructed as follows: 2 ;P:2;SB:A/C/C/ / ;C:UN ; SG:6 ,7 ;DT:30,08/29/08;ID: 99;A: ;)</p> <ul style="list-style-type: none"> a. What number, in the communication line in Figure _____, appears in the header? <u>(2)</u> b. What is the priority level indicated in the example communication line? <u>(2)</u> c. Who is the subscriber shown on the message segment? <u>(ACC)</u> d. What is the security classification of this message segment? <u>(UN or unclassified)</u> e. When this communication line appears, which segment are you viewing? <u>(6)</u> f. What time was this segment received by the computer (in hours and minutes)? <u>(0829)</u> 	<p>3.1.1 When a message is being displayed on the RD or CED, the communication line (is/is not) normally displayed?</p> <p>3.1.2 What is the SPA switch action to take to cause the communication line of a message to be displayed?</p> <ul style="list-style-type: none"> *a. ILL SW ACTION b. SAVE c. CYCLE MESSAGES d. PAGE <p>3.1.3 When the communication line is displayed by taking the ILL SW ACTION, it will appear in:</p> <ul style="list-style-type: none"> a. Place of the message status line. b. The last line of the message. c. The 1st line of the message. *d. The 1st line of each message segment.

TASK No. 1003

MODULE FM

UNIT CL

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.2</p> <p>g. What is the identification number of this message? <u>(99)</u></p> <p>h. Was this message segment automatically transmitted by the computer? (Yes/<u>No</u>)</p> <p>i. How many segments are there in the entire message which accompanies this communication line? <u>(7)</u></p>	

TAIS No. 1004MODULE FMUNIT SPA

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 4.0
2. TASK: Identify the SPA switches employed to display and transmit messages.
3. CONDITIONS: Given different formatted test items concerning the SPA switches, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
4.1 Identify SPA display switches.	4.1 None.	1. Picture/ drawing of ACC.	DTM 11-7440- 240-10
4.2 Identify SPA transmit switches.	4.2 None.	2. Additional material to be developed as required.	Chapter 3 Pages 3-29 through 3-102. Chapter 9 Pages 9-1 through 9-93; 9-119 through 9-185; 9-209 through 9-240.

TAIS No. 1004MODULE FM
UNIT SPA

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>4.1 The student is able to identify the function of each of the following display switches as being:</p> <ul style="list-style-type: none"> a. PRIORITY MESSAGE - Displays message with highest priority in receive queue. b. CYCLE MESSAGES - Displays messages in order of priority. c. PAGE - Displays consecutive message segments. <p>4.2 The student is able to identify the function of each of the following transmittal switches as being:</p> <ul style="list-style-type: none"> a. RD XMIT - Transmits messages appearing on RD. b. RD CMPTR ACTION - Sends messages from RD to TACFIRE computer. 	<p>4.1.1 The student is able to identify which ACC display device corresponds with display switch actions. The associations are:</p> <ul style="list-style-type: none"> a. PRIORITY MESSAGE - RD b. CYCLE MESSAGES - RD c. PAGE - RD

TATS No. 1004

MODULE FM

UNIT SPA

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.1 A. Your message status line indicates that a fire mission is awaiting your action. Which of the following switches is the best to press to display the request?</p> <p>1) CYCLE MESSAGES</p> <p>2) PAGE</p> <p>*3) PRIORITY MESSAGE</p> <p>4) RD CMPTR ACTION</p> <p>B. You wish to display a priority 5 message. Which of the following is the best switch to press to display the message?</p> <p>*1) CYCLE MESSAGES</p> <p>2) PAGE</p> <p>3) PRIORITY MESSAGE</p> <p>4) RD CMPTR ACTION</p> <p>C. An FM;RFAF is displayed on the RD. Which switch should be pressed to see the next segment?</p> <p>1) CYCLE MESSAGES</p> <p>*2) PAGE</p> <p>3) PRIORITY MESSAGE</p> <p>4) RD CMPTR ACTION</p>	<p>4.1.1 A. The PRIORITY MESSAGE switch enables display of a message on the <u>RD</u>?</p> <p>B. The CYCLE MESSAGES switch enables display of a message on the <u>RD</u>?</p> <p>C. Pressing PAGE will enable display of different segments of a single message on the RD? (<u>True</u> or false)</p>

FAIS No. 1004

MODULE FM

UNIT SPA

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.2 A. You have a FM;EOM displayed and want to send it to the firing batteries. Which switch should you press?</p> <p>1) CYCLE MESSAGES</p> <p>2) RD CMPTR ACTION</p> <p>*3) RD XMIT</p> <p>4) REPLACE</p> <p>B. You wish to send a message such as an AFU;MFR to your TACFIRE computer. The message is currently displayed on the RD. Which switch should be pressed?</p> <p>1) CYCLE MESSAGES</p> <p>2) PRIORITY MESSAGE</p> <p>*3) RD CMPTR ACTION</p> <p>4) RD XMIT</p>	

TAIS No. 1005MODULE FMUNIT FM1

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 5.0
2. TASK: Process a fire mission received from a FO message device when operating in the automatic mode.
3. CONDITIONS: Given situation to process a fire mission in the automatic mode, identify correct procedures.
 Given fire mission message segments, interpret messages.
 Given different formatted test items concerning the processing of a fire mission in the automatic mode, provide correct response.
4. STANDARD: No errors.

5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
5.1 Identify indicators of message awaiting processing.	5.1 Know components of message status line.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
5.2 Identify purpose of FM formats.	5.2 Know SPA switches.	2. Message formats FM;RFAF FM;SUBS FM;5205 FM;FC FM;EOM and AFU;MFR	Chapter 3 Pages 3-29 through 3-102.
5.3 Display messages.	5.3 None.		Chapter 9 Pages 9-1 through 9-93; 9-119 through 9-185; 9-209 through 9-240.
5.4 Interpret FM mnemonics.	5.4 None.		
5.5 Transmit messages to FUs.	5.5 None.		
5.6 Identify auto mode characteristics.	5.6 None.		
5.7 Identify purpose of AFU;MFR message.	5.7 None.	3. Additional material to be developed as required.	
5.8 Display AFU;MFR message.	5.8 Know SPA switches.		
5.9 Interpret AFU;MFR mnemonics.	5.9 None.		
5.10 Take computer action.	5.10 Know operation of ACC component parts.		

TAIS No. 1005MODULE FMUNIT FM1

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.10

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>5.1 The student can identify the following indicators that a fire mission request has been received by the FDC as being:</p> <ul style="list-style-type: none"> a. PRIORITY MESSAGE lights. b. FM mnemonic increments. c. MSG mnemonic increments. 	<p>5.2.1 Match the following message formats with their origins. The associations are:</p> <ul style="list-style-type: none"> a. FM,5205 - TACFIRE Computer b. FM;FC - TACFIRE Computer c. FM;RFAF - FO, FSO, Div Arty or ACC.
<p>5.2 The student can identify the purpose of the following message formats as being:</p> <ul style="list-style-type: none"> a. FM;RFAF - To request fire on a new target. b. FM;5205 - To indicate errors and warnings. c. FM;FC - To transmit fire commands to fire units. 	<p>5.4.1 State COMPUTER as being how target numbers for fire missions are assigned.</p> <p>5.6.1 Match the following mnemonics with their definition. The associations are:</p> <ul style="list-style-type: none"> a. AF - Adjust fire. b. FFE - Fire for effect. c. EOM - End of mission.
<p>5.3 A. The student can identify which switch should be pressed to display a request for fire as: PRIORITY MESSAGE OR CYCLE MESSAGES.</p> <p>B. The student can identify which switch should be pressed to display segments of a message as: PAGE.</p>	<p>5.6.2 State ON THE ELP as being where AF and FFE commands appear when operating in the Automatic Mode and no error messages are generated.</p> <p>5.7.1 Match the following mnemonics with their definition. The associations are as follows:</p> <ul style="list-style-type: none"> a. AFU - Ammunition and Fire Unit Function b. MFR - Non Nuclear Mission Fired Report

TAIS No. 1005MODULE FM
UNIT FM1

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.10

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>5.4 A. Given a FM;RFAF as displayed on the RD, the student can interpret entries in the following message subfields:</p> <ul style="list-style-type: none"> 1) TGT - Target number 2) CORD - Target Easting, Northing and altitude 3) OB - Observer <p>B. The student can interpret entries in the following FM;FC message subfields:</p> <ul style="list-style-type: none"> 1. SHL 2. TGT 	<p>5.7.2 Pick from a list the message that is generated automatically by the computer following FOM as being: AFU;MFR.</p>
<p>5.5 The student can identify the SPA switch used to transmit fire commands as being: RD XMIT.</p>	
<p>5.6 The student can state NO ACC ACTIONS REQUIRED to process AF and FFE fire commands when operating in the automatic mode.</p>	
<p>5.7 The student can identify the purpose of an AFU;MFR message as being: TO UPDATE FILES STORED IN THE COMPUTER AND TO SEND A MFR TO DIVARTY</p>	
<p>5.8 The student can identify the SPA switch to press to display an AFU;MFR as being: PRIORITY MESSAGE OR CYCLE MESSAGES.</p>	

TAIS No. 1005MODULE FMUNIT FM1

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.10

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
5.9 Given a sample AFU;MFR as displayed on the RD, the student can interpret entries in the following message subfields: a. CAS b. DISPO	
5.10 The student can identify the correct SPA switch to process an AFU;MFR as being: RD CMPTR ACTION.	

TASK No. 1005

MODULE FM
UNIT FM1

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.10

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.1 Which of the following are indicators that a fire mission request has been received by the FDC?</p> <p>*a. PRIORITY MESSAGE switch lights.</p> <p>*b. FM mnemonic of message status line increments.</p> <p>c. RD XMIT switch lights.</p> <p>*d. MSG mnemonic of message status line increments.</p> <p><u>(a,b,d)</u></p> <p>5.2 A. A FO has requested fire on a new target. What message format did he use?</p> <p><u>(FM;RFAF)</u></p> <p>B. Which of the following message formats is used to indicate fire mission errors and warnings?</p> <p>1) FM;RFAF</p> <p>*2) FM;5205</p> <p>3) FM;FC</p> <p>4) AFU;MFR</p> <p>C. Which of the following message formats is used to transmit fire commands to fire units?</p> <p>1) FM;RFAF</p> <p>2) FM;5205</p> <p>*3) FM;FC</p> <p>4) AFU;MFR</p>	<p>5.2.1 Who prepares FM;5205 and FM;FC message formats?</p> <p>a. FO</p> <p>*b. TACFIRE Computer</p> <p>c. FSO</p> <p>d. Div Arty</p> <p>5.4.1 Does the TACFIRE computer automatically assign a target number to new targets? <u>(Yes/No)</u></p> <p>5.6.1 A. The mnemonic for adjust fire is? <u>(AF)</u></p> <p>B. The mnemonic for fire for effect is? <u>(FFE)</u></p> <p>C. The mnemonic for end of mission is? <u>(EOM)</u></p> <p>5.6.2 In the automatic mode, adjust fire and FFE fire commands appear on which of the following when no error messages have been generated.</p> <p>a. RD (Receive Display) only.</p> <p>*b. ELP (Electronic Line Printer) only.</p> <p>c. Both RD and ELP.</p> <p>5.7.1 Following notification of EOM, what type of message will be generated by the computer?</p> <p><u>(AFU;MFR)</u></p>

TAIS No. 1005

MODULE FM

UNIT FM1

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.10

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.3 A1. Your message status line indicates a new fire mission. Which SPA switch do you press to view this request?</p> <ul style="list-style-type: none"> *1) PRIORITY MESSAGE 2) REPLACE 3) RD XMIT 4) DELETE <p>A2. If pressing PRIORITY MESSAGE switch does not cause the FM to be displayed on the RD, which SPA switch must you then press?</p> <ul style="list-style-type: none"> 1) CHECK FIRE 2) RD CMPTR ACTION 3) FPF *4) CYCLE MESSAGES <p>B. Segment 1 of a 5 segment message is being displayed. Which one of the following SPA switches is used to display the other segments?</p> <ul style="list-style-type: none"> 1) RD XMIT 2) CYCLE MESSAGES *3) PAGE 4) RD CMPTR ACTION 	<p>5.7.2 Which of the following messages is generated automatically by the computer following EOM?</p> <ul style="list-style-type: none"> a. FM;RFAF b. FM;SUBS *c. AFU;MFR d. FM;FC

TAIS No. 1005MODULE FMUNIT FM1

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.10

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.4 A1. Refer to Figure _____. What is the target number shown in this FM;RFAF? (BB0033)</p> <p>A2. What is the easting coordinate of target BB0033? (437200)</p> <p>A3. What is the target altitude for this target? (1000)</p> <p>A4. What forward observer requested fire on target BB0033? (Three or 3)</p>	
<p>5.4 B1. Refer to Figure ____, which shows a sample FM;FC message. Shells used for adjust were which of the following type?</p> <p>*1) HEA2</p> <p>2) HEC2</p> <p>3) PDA</p> <p>4) TIB</p> <p>B2. What is the target range for this target? (10693)</p>	

TMS No. 1005

MODULE FMUNIT FMI

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.10

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.5 Which of the following switches is used to transmit fire commands from the RD?</p> <ul style="list-style-type: none"> *a. RD XMIT b. CYCLE MESSAGES c. PAGE d. RD CMPTR ACTION <p>5.6 In the automatic mode, how are adjust fire and FFE fire commands transmitted to a FU when warning and error messages do not occur?</p> <ul style="list-style-type: none"> *a. Automatically transmitted. b. Require ACC operator action. <p>5.7 AFU;MFR message formats are used to update files stored in the computer and to send a MFR to Div Arty.</p> <p>(True or False)</p> <p>5.8 To display an AFU;MFR, which of the following switches may be pressed?</p> <ul style="list-style-type: none"> a. TRANSFER TO EDIT b. RESTORE *c. PRIORITY MESSAGE *d. CYCLE MESSAGES <p><u>(c, d)</u></p>	

EATS No. 1005

MODULE FM
UNIT FM1

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.10

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.9 A. Refer to Figure _____ which shows a sample AFU;MFR as printed on the ELP. How many enemy casualties are indicated?</p> <p><u>(5)</u></p> <p>B. What is the disposition of the target?</p> <p><u>(Neut or Neutralized)</u></p> <p>5.10 Which switch should be pressed to return an AFU;MFR to the computer for ammo file update and to send the message to Div Arty?</p> <p><u>(RD CMPTR ACTION)</u></p>	

TAIS No. 1006MODULE FM
UNIT FM2

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 6.0
2. TASK: Process a fire mission received from a FO message device when operating in the manual (normal) mode.
3. CONDITIONS: Given situation to process a fire mission in the manual mode, identify correct procedures. Given fire mission message segments, interpret messages. Given different formatted test items concerning the processing of a fire mission in the manual mode, provide correct response.
4. STANDARD: No errors
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
6.1 Identify difference between automatic and manual modes.	6.1 None	1. Picture/ drawing of ACC.	DTM 11-7440- 240-10
6.2 Identify purpose of FU;SUBS message.	6.2 Know function of SPA switches.	2. Message formats FM;RFAF FM;SUBS FM;FC FM;EOM AFU;MFR	Chapter 3 Pages 3-29 through 3-102.
6.3 Interpret FM mnemonics	6.3 None		Chapter 9 Pages 9-1 through 9-93; 9-119 through 9-185; 9-209 through 9-240.
6.4 Interpret AFU mnemonics.	6.4 None	3. Additional material to be developed as required.	

TAIS No. 1006MODULE FM
UNIT FM2

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>6.1 The student can identify the difference between the automatic and manual modes of operation for the processing of fire missions as being:</p> <p>a. Automatic mode - processing of AF and FFE phase of fire mission is done by the computer automatically.</p> <p>b. Manual mode - ACC Operator actions are required to process the AF and FFE phases of a fire mission.</p> <p>6.2 The student can identify the purpose of the FM;SUBS message as being to indicate:</p> <p>a. Adjust fire commands</p> <p>b. FFE</p> <p>c. EOM</p>	<p>6.1.1 State IDENTICAL as being how the computer processes an initial fire request when operating in the automatic or manual mode.</p> <p>6.2.1 State FO as being the person who normally originates a FM;SUBS message.</p> <p>6.2.2 Identify the computer generated message formats that result from a FM;SUBS as being: FM;FC AND FM;EOM MESSAGES.</p>

TAIS No. 1006MODULE FM
UNIT FM2

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>6.3 The student can interpret the following FM mnemonics. Mnemonics and their definitions are as follows:</p> <ul style="list-style-type: none"> a. GZ - Grid Zone b. DOP - Degree of protection c. SIZE - Size of target in meters d. DIR - Observer--target e. SHIFT - Shift deflection, range and height f. EOM - End of mission g. CONT - Control h. TYPE - Type target i. DISPO - Disposition of target j. CAS - Number of enemy casualties k. SH - Shell in effect l. SHL - Shell to adjust m. FZ - Fuze in effect n. FZE - Fuze to adjust o. MF - Method of fire p. DF - Deflection q. QE - Quadrant elevation r. TOF - Time of flight s. RG - Range 	

TAIS No. 1006MODULE FMUNIT FM2

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>6.4 The student can interpret the following AFU mnemonics. Mnemonics and their definitions are as follows:</p> <ul style="list-style-type: none">a. REL - Reliabilityb. FU1 - Fire unit namec. SH1 - Shell descriptiond. FZ1 - Fuze descriptione. ATT - Attitude of target in milsf. STR - Target strength	

TAIS No. 1006MODULE FMUNIT FM2

TEST ITEMS

TASK IDENTIFICATION:

TASK ELEMENTS:

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>6.1 A. In the manual mode, all fire commands (AF and FFE) must be approved before transmittal to fire units.</p> <p>(True or False)</p> <p>B. In the automatic mode, all fire commands (AF and FFE) must be approved before transmittal to fire units.</p> <p>(True or False)</p> <p>6.2 A FM;SUBS message format may be used to indicate which of the following:</p> <p>*a. Adjust fire commands</p> <p>*b. FFE</p> <p>c. Warnings and errors</p> <p>*d. EOM</p> <p>e. Mission Fired Report</p> <p>(a,b,d)</p> <p>6.3 Refer to Figure ____ which shows a sample FM;RFAF message as it would appear displayed on the RD.</p> <p>A. In what grid zone is the target located?</p> <p>(14)</p>	<p>6.1.1 In both the manual mode and the automatic mode, processing of a FO's initial fire request by the computer is (<u>similar</u>/different).</p> <p>6.2.1 Under normal operating conditions a FM;SUBS is transmitted to the TACFIRE computer by:</p> <p>*a. A FO</p> <p>b. Div Arty</p> <p>c. The FSO</p> <p>d. The ACC operator</p> <p>6.2.2 There are two types of messages which can be generated by the computer following the FOs input of FM;SUBS. Which two of the following are they?</p> <p>a. FM;RFAF</p> <p>*b. FM;FC</p> <p>*c. FM;EOM</p> <p>d. FM;COMD</p> <p>(b,c)</p>

TAIS No. 1006MODULE FM
UNIT FM2

TEST ITEMS

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>6.3 B. What degree of protection does the target have?</p> <p>a. Prone</p> <p>*b. Half prone, half standing</p> <p>c. Dug in</p> <p>d. Under overhead cover</p> <p>C1. What is the target length?</p> <p><u>(1000 meters)</u></p> <p>C2. What is the target width?</p> <p><u>(50 meters)</u></p> <p>D. What direction is used?</p> <p><u>(Gun to Target)</u></p> <p>For the following questions, refer to Figure ___ which shows a sample FM;SUBS message as it would appear displayed on the RD.</p> <p>E. What shift does the FO request?</p> <p>1) Left 20 and add 200</p> <p>*2) Left 200 and add 20</p> <p>3) Right 20 and add 200</p> <p>4) Right 200 and add 20</p> <p>F. Does this FM;SUBS message indicate EOM?</p> <p><u>(No)</u></p>	

TATS No. 1006

MODULE FM

UNIT FM2

TEST ITEMS

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>G1. Did the FO request FFE? <u>(Yes)</u></p> <p>G2. Did the FO indicate fire to begin at his command? <u>(No)</u></p> <p>For the following questions, refer to Figure ____ which shows a sample FM;SUBS message as it would appear on the RD. (The FM;SUBS message indicates EOM).</p> <p>H. What type of target is indicated? <u>(Personnel/Infantry)</u></p> <p>I. What is the disposition of the target?</p> <p>1) Burned</p> <p>2) Destroyed</p> <p>*3) Neutralized</p> <p>4) Unknown</p> <p>J. How many enemy casualties resulted from this fire mission? <u>(5)</u></p> <p>For the following questions, refer to Figure ____ which shows a sample FM;FC message as it would appear on the RD.</p> <p>K. What type of shell was fired in effect? <u>(HEC2)</u></p>	

TAIS No. 1006

MODULE FM
UNIT FM2

TEST ITEMS

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>6.3 L. What type of shell was fired for adjust fire? (HEA2)</p> <p>M. What type of fuze was used in fire for effect? (TIB)</p> <p>N. What type of fuze was used to adjust? (PDA)</p> <p>O. What method of fire is indicated? (When Ready)</p> <p>P. What deflection is indicated? (2070)</p> <p>Q. What quadrant elevation is indicated? (353.4)</p> <p>R. What is the time of flight? (31.2 seconds)</p> <p>S. What is the range? (10593)</p> <p>For the following questions, refer to Figure ____ which shows a sample AFU;MFR message as it would appear on the RD.</p>	
<p>6.4 A. What is the reliability of this report? (Good)</p> <p>B. FUI is which battery? (A)</p>	

TAIS No. 1006MODULE FMUNIT FM2

TEST ITEMS

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION ITEM(S)	ENABLING ITEM(S)
6.3 C. How many shells were fired by Btry A? <u>(16)</u>	
D. What fuze was used by Btry A in effect? <u>(TIB)</u>	
E. What is the attitude of the target? <u>(Ø)</u>	
F. What was the strength of the target? <u>(9)</u>	

TAIS No. 1007MODULE FM
UNIT FM3

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 7.0
2. TASK: Process a fire mission received by voice communication when operating in the manual mode and implement a check fire using the ACC command switches.
3. CONDITIONS: Given a situation to process a fire mission received by voice communication, identify correct procedures. Given a situation to implement a check fire during the processing of a fire mission, identify correct procedures. Given fire mission message segments, interpret messages. Given different formatted test items concerning the processing of a FM received by voice communication, provide correct response.
4. STANDARD: No errors
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
7.1 Select and display FM;RFAF message format.	7.1 None.	1. Picture/ drawing of ACC.	DTM 11-7440- 240-10
7.2 Identify entries for initial fire request.	7.2 Know RFAF mnemonics.		Chapter 3 Pages 3-29 through 3-102.
7.3 Identify actions to implement ACC message.	7.3 Know SPA switch action2.	2. Entry data and	
7.4 Select and display FM;SUBS message format.	7.4 Know operation of format matrix switches	FM;RFAF FM;FC FM;SUBS FM;EOM AFU;MFR formats.	Chapter 9 Pages 9-1 through 9-93; 9-119 through 9-185; 9-209 through 9-240.
7.5 Identify entries for adjust fire.	7.5 Know SUBS mnemonics.		
7.6 Identify check fire procedures.	7.6 None.		
7.7 Identify entries for fire for effect.	7.7 Know SUBS mnemonics.	3. Additional material to be developed as required.	
7.8 Identify entries for end of mission.	7.8 Know EOM message formats.		

TAIS No. 1007MODULE FMUNIT FM3

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>7.1 Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the FM;RFAF message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ul style="list-style-type: none"> a. Depress switches A and 8. b. Activate FORMAT COMMAND switch. 	<p>7.1.1 Pick from a list where the TACFIRE message formats will display after the appropriate FORMAT COMMAND/SELECT switch is pressed as being: CED</p>
<p>7.2 Given the information for an initial fire request, the student will identify the data to simulate completion of a FM;RFAF input message. Data entries will include:</p> <ul style="list-style-type: none"> a. CORD b. TYPE c. DOP d. SIZE <p>(Data to be developed)</p>	<p>7.6.1 Given a picture/drawing of the ACC switch panel assembly, with the COMMAND and MESSAGE ADDRESS switches marked by numbers and arrows, the student can identify the numbered switches to:</p> <ul style="list-style-type: none"> a. CHECK FIRE Btry B (10,12) b. CANCEL CHECK FIRE Btry D (9,14)
<p>7.3 The student will state C/ED CMPTR ACTION as being the SPA switch action to take to process a message originating from the CED.</p>	<p>7.6.2 State LIGHTS as being the result of pressing a MESSAGE ADDRESS switch</p> <p>7.6.3 Pick from a list the status of a lighted MESSAGE ADDRESS switch when a COMMAND switch is pressed as being: LIGHT GOES OFF</p>

TAIS No. 1007MODULE FM
UNIT FM3

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>7.4 Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the FM;SUBS message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ul style="list-style-type: none"> a. Depress switches B and 8. b. Activate FORMAT COMMAND switch. 	<p>7.6.4 Pick from a list the priority that check fire messages have as being: TOP PRIORITY.</p> <p>7.6.5 Pick from a list the maximum number of addresses that each MESSAGE ADDRESS switch may have as being: 7.</p>
<p>7.5 Given the information for an adjust fire message, the student will identify data to simulate completion of a FM;SUBS input message. Data entries will include:</p> <ul style="list-style-type: none"> a. TGT b. DIR c. SHIFT d. CONT 	
<p>7.6 A. When presented with a list of procedures to implement check fire using the ACC switch assembly, but with the steps in a scrambled order, the student can state the correct order in which these procedures are performed. The correct order is:</p> <ul style="list-style-type: none"> 1. Determine the batteries to check fire. 2. Press the MESSAGE ADDRESS switch to select desired batteries. 	

TAIS No. 1007MODULE FMUNIT FM3

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>7.6 3. Press CHECK FIRE COMMAND switch.</p> <p>B. When presented with a list of procedures to cancel check fire using the ACC switch assembly, but with the steps in a scrambled order, the student can state the correct order in which these procedures are performed. The correct order is:</p> <ol style="list-style-type: none">1. Determine the batteries to cancel check fire.2. Press the MESSAGE ADDRESS switch or switches to select desired batteries.3. Press CANCEL CHECK FIRE switch	
<p>7.7 Given the information for fire for effect, the student will identify the data to simulate completion of a FM;SUBS input message. Data entries will include:</p> <ol style="list-style-type: none">a. TGTb. DIRc. SHIFTd. CONT	

TAIS No. 1007MODULE FMUNIT FM3

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>7.8 Given the information for an end of mission message, the student will identify the data to simulate completion of a FM;SUBS input message. Data entries will include:</p> <ul style="list-style-type: none">a. TGTb. EOMc. DISPOd. CAS	

TATS No. 1007

MODULE FM

UNIT FM3

TEST ITEMS

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>7.1 A. Refer to Figure ____.</p> <p>A FO has requested a fire mission via voice communication. Which format matrix switches should you press to select the message format so you can enter the data.</p> <p>Switches <u>(A)</u> and <u>(8)</u>.</p> <p>B. After pressing the A and 8 switches to select the FM;RFAF message format, which FORMAT switch do you press to have it displayed on the CED?</p> <p><u>(COMMAND/SELECT)</u></p> <p>7.2 A FO has requested a fire mission via voice communication. You have already selected the FM;RFAF format message (Figure A) and now must enter the information. Answer the following questions concerning the entry of data into the FM;RFAF message format.</p> <p>(Sample data and questions)</p> <p>Data to be included in Figure B.</p> <ul style="list-style-type: none"> Coordinates <p>Easting: 543000</p> <p>Northing: 452180</p> <p>Altitude: 170</p> Type target-Personnel/Infantry Degree of protection - first volley prone, subsequent volleys, dug in. Size - 100 meters radius 	<p>7.1.1 Where do TACFIRE message formats display after being selected from the format matrix?</p> <p><u>(CED/RD)</u></p> <p>7.6.1 A. Refer to Figure ____ which shows a picture of the ACC. What numbered switches would you use to check fire on B Battery's target?</p> <p><u>(10,12)</u></p> <p>7.6.1 B. Refer to Figure ____ which shows a picture of the ACC. You have previously given D Battery a check fire on their target and now want to cancel the check fire. What numbered switches would you now use to cancel the check fire for D Battery.</p> <p><u>(9,14)</u></p> <p>7.6.2 Pressing a MESSAGE ADDRESS switch causes it to <u>(Light)</u>.</p> <p>7.6.3 Activating a COMMAND switch causes a lighted MESSAGE ADDRESS switch to:</p> <ul style="list-style-type: none"> a. Remain lighted b. Emit a tone *c. Go off <p>7.6.4 What priority do check fire messages have?</p> <ul style="list-style-type: none"> a. Priority 2 b. Priority 3 c. Low priority *d. Top priority

TEST ITEMS

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>7.2 Refer to Figures A and B for the following questions:</p> <ol style="list-style-type: none"> 1. Which of the following is the correct entry for coordinates? <ol style="list-style-type: none"> a. CORD:543 /45218 / 170; *b. CORD:543000/452180 / 170; c. CORD:452180/543000 / 170; d. CORD: 543/ 45218 / 117; 2. Which of the following is the correct entry for type of target? <ol style="list-style-type: none"> a. TYPE:INF /PERS ; b. TYPE:PERSONNEL ; *c. TYPE:PERS /INF ; d. TYPE:INFANTRY ; 3. Which of the following is the correct entry for degree of protection? <ol style="list-style-type: none"> a. DOP:DUGIN ; *b. DOP:PRUG ; c. DOP:PRONE ; d. DOP:PRONE/DUG; 	

TASK No. 1007

MODULE FM
UNIT FM3

TEST ITEMS

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>7.2 4. Which of the following is the correct entry for size of target:</p> <p>a. SIZE: 100/ 100;</p> <p>b. SIZE: 100M/ RAD;</p> <p>c. SIZE: / 100;</p> <p>*d. SIZE: 100/ ;</p> <p>7.3 Which of the following switches should be pressed to process a message composed on the CED?</p> <p>a. RD CMPTR ACTION</p> <p>b. FORMAT COMMAND</p> <p>c. TRANSFER TO EDIT</p> <p>*d. C/ED CMPTR ACTION</p> <p>7.4 A. Refer to Figure _____. The FO has specified adjust fire by voice communication. Which two format matrix switches should be pressed to select the message format for subsequent commands.</p> <p>Switches <u>(B)</u> and <u>(8)</u>.</p> <p>B. To display the FM;SUBS message format on the CED you must press the COMMAND <u>(FORMAT)</u> switch.</p>	

NAIS No. 1007

MODULE FMUNIT FM3

TEST ITEMS

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>7.5 A FO, by voice, has input the shift for adjust fire. You have already selected the FM;SUBS format message (Figure C) and now must enter the information. Answer the following questions concerning the entry of data into the FM;SUBS message format.</p> <p>(Sample data and questions)</p> <p>Data to be included in Figure D.</p> <ul style="list-style-type: none"> • Target number - AA0055 • Direction - gun to target • Shift - Left 100, Add 50 • Control - When ready, adjust fire <p>Refer to Figures C and D for the following questions.</p> <p>1. Which of the following is the correct entry for target number?</p> <ul style="list-style-type: none"> *a. TGT:AA0055; b. TGT: 55; c. TGT:AA55 ; d. TGT: AA55; <p>2. Which of the following is the correct entry for direction?</p> <ul style="list-style-type: none"> a. DIR:GT / ; b. DIR: GT/ ; *c. DIR: /GT; d. DIR: 900/ ; 	

EATS No. 1007MODULE FMUNIT FM3

TEST ITEMS

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>7.5 3. Which of the following is the correct entry for shift?</p> <p>a. SHIFT:L/ 50/+/ 100/ / /;</p> <p>*b. SHIFI:L/ 100/+/ 50/ / /;</p> <p>c. SHIFT: / /L/ 100/+1/ 50/;</p> <p>d. SHIFT:+/ 50/L/ 100/ / /;</p> <p>4. Which of the following is the correct entry for control?</p> <p>a. CONT: AF/WR ;</p> <p>*b. CONT: WR/AF :</p> <p>c. CONT:WHEN/READY;</p> <p>d. CONT:ADJ/WR ;</p>	
<p>7.6 A. The FO by voice has requested a check fire on C Battery's target. Put in the correct order the steps to check fire using the ACC command switches</p> <p>1. Press CHECK FIRE COMMAND switch.</p> <p>2. Press MESSAGE ADDRESS switch C.</p> <p><u>(2,1)</u></p>	

NAIS No. 1007

MODULE FM
UNIT FM3

TEST ITEMS

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>7.6 B. The FO, by voice, has requested that the check fire on C Btry be cancelled. After pressing MESSAGE ADDRESS C to address Btry C, what COMMAND switch do you press.</p> <ol style="list-style-type: none"> 1. FORMAT 2. FPF *3. CANCEL CHECK FIRE 4. CHECK FIRE <p>7.7 A FO, by voice, communicated FFE commands. You have already selected the FM;SUBS format message (Figure E) and now must enter the information. Answer the following questions concerning the entry of data into the FM;SUBS message format.</p> <p>(Sample data and questions)</p> <p>Data to be included in Figure F.</p> <ul style="list-style-type: none"> • Target number - AA0055 • Direction - Gun to target • Shift - Left 150 • Control - When ready, FFE 	

TEST ITEMS

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>7.7 Refer to Figures E and F for the following questions:</p> <ol style="list-style-type: none"> 1. Which of the following is the correct entry for control? <ol style="list-style-type: none"> *a. CONT:WR /FFE ; b. CONT:WR /EFFECT; c. CONT:FFE/WR ; d. CONT:IN /EFFECT; 2. Which of the following is correct entry for shift? <ol style="list-style-type: none"> a. SHIFT:R/50 / / / b. SHIFT:L/ /50/ / *c. SHIFT:L/50 / / / d. SHIFT:L/ / /50 / <p>7.8 The FO has, by voice, communicated EOM results. You have already selected FM;SUBS format message (Figure G) and now must enter the information. Answer the following questions concerning the entry of data into the FM;SUBS message format.</p> <p>(Sample data and questions)</p> <p>Data to be included in Figure H.</p> <ul style="list-style-type: none"> • Target Number - AA0055 • Disposition - Neutralized • Casualties - 50 	

FATS No. 1007

MODULE FM
UNIT FM3

TEST ITEMS

TASK IDENTIFICATION: 7.0

TASK ELEMENTS: 7.1 - 7.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>7.8 Refer to Figures G and H for the following questions.</p> <p>1. Which of the following is the correct entry for disposition of the target?</p> <p>a. DISPO:BURN/ /;</p> <p>b. DISPO: /NEUT/;</p> <p>c. DISPO: /DEST/;</p> <p>*d. DISPO:NEUT/ /;</p> <p>2. Which of the following is the correct entry for casualties:</p> <p>a. CAS:FIFTY;</p> <p>*b. CAS:50 ;</p> <p>c. CAS: 5;</p> <p>d. CAS:AA55,50;</p> <p>3. Which of the following is the correct entry to indicate end of mission?</p> <p>a. ALTER:X;EOM: ;RAT: ;</p> <p>b. ALTER: ;EOM: ;RAT:X;</p> <p>*c. ALTER: ;EOM:X;RAT: ;</p> <p>d. ALTER:X;EOM:X;RAT: ;</p>	

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 8.0
2. TASK: Process a fire mission received from a FO message device requiring Div Arty support
3. CONDITIONS: Given situation to process a fire mission requiring Div Arty support, identify correct procedures. Given fire mission message segments, interpret messages. Given different formatted test items concerning the processing of a FM requiring Div Arty support, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
8.1 Process initial fire request.	8.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
8.2 Process adjust fire.	8.2 Know operation of ACC component parts.	2. Entry data and FM;RFAF, FM;FC, FM;SUBS, FM;COMD and AFU;MFR formats.	Chapter 3 Pages 3-29 through 3-102;
8.3 Process FFE.	8.3 Know operation of ACC component parts.		Chapter 9 Pages 9-1 through 9-93;
8.4 Process end of mission.	8.4 Know operation of ACC component parts	3. Additional material to be developed as required.	9-119 through 9-185; 9-209 through 9-240.

TAIS No. 1008

MODULE FM
UNIT FM4

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 8.0

TASK ELEMENTS: 8.1-8.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>8.1 When presented with a list of sequence statements describing the processing of an initial fire request indicating a request for Div Arty support, but with the steps in a scrambled order, the student can state the correct order in which the processing occurs. The correct order is:</p> <ul style="list-style-type: none"> a. Display FM;RFAF. b. PAGE and review each message segment. c. Take DELETE action on RFAF to Div Arty. d. Press RD XMIT. 	<p>8.1.1 Pick from a list where in the initial request for fire message segments that a request to Div Arty for additional fire (RFAF) is located as being: FOLLOWS THE FIRE COMMANDS TO THE FUS.</p> <p>8.1.2 Match the following mnemonics with their definition and function.</p> <ul style="list-style-type: none"> a. MYEFF - Estimated effects in percent obtainable by originating Bn. b. EFF - Percent of desired effects. c. VOL - Desired number of volleys.
<p>8.2 When presented with a list of sequence statements describing the processing of an adjust fire phase of a fire mission, but with the steps in a scrambled order, the student can state the correct order in which the processing occurs. The correct order is:</p> <ul style="list-style-type: none"> a. Display FM;SUBS message segment. b. PAGE and review each message segment. c. Press RD XMIT. 	<p>8.1.3 Given a FM;RFAF as displayed on the RD, answer different formatted questions concerning the indicators that identify the message segment as a RFAF for Div Arty. The indicators will include:</p> <ul style="list-style-type: none"> • SB field in communication line is blank. • RFAF is specified. • MYEFF is indicated. • Target number is assigned. • Target location is specified. • Target descriptive data is indicated. • Effects or volley data is specified.

TAIS No. 1008MODULE FM
UNIT FM4

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 8.0

TASK ELEMENTS: 8.1 ~ 8.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>8.3 When presented with a list of sequence statements describing the processing of the FFE phase of a fire mission in which a request for Div Arty support is made, but with the steps in a scrambled order, the student can state the correct order in which the processing occurs. The correct order is:</p> <ul style="list-style-type: none"> a. Display FM;SUBS message segments. b. Select and display FM;CMD message. c. Enter TGT and specify XMIT in FM;CMD message. d. Take C/ED CMPTR ACTION to transmit RFAF to Div Arty. e. Take RD XMIT to transmit FFE fire commands to the FUs. 	<p>8.1.4 Pick from a list the action to take when adjust fire is required and a RFAF for Div Arty has been generated in the initial request for fire as being: DELETE FM;RFAF MESSAGE SEGMENT FOR DIV ARTY.</p> <p>8.1.5 Pick from a list the action to take to transmit the initial fire commands to the FUs as being: PRESS RD XMIT.</p> <p>8.1.6 Pick from a list the error message displayed when RD XMIT is taken and not all addressees of the segmented messages are in the subscriber table as being: ILLEGAL SUBSCRIBER.</p> <p>8.3.1 Pick from a list the FM message format to use to transmit a RFAF to Div Arty as being: FM;CMD.</p> <p>8.3.2 Given a picture/drawing of the ACC switch panel assembly, identify the switch actions to take to select the FM;CMD message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ul style="list-style-type: none"> a. Depress switches G and 8. b. Activate FORMAT COMMAND switch. <p>8.3.3 State CED as being where the FM;CMD message will display after being selected.</p>
<p>8.4 When presented with a list of sequence statements describing the processing of the EOM phase of a fire mission, but with the steps in a scrambled order, the student can state the correct order in which the processing occurs. The correct order is:</p> <ul style="list-style-type: none"> a. Display FM;SUBS message segment. b. PAGE and review each EOM message segment. c. Press RD XMIT. d. Display AFU;MFR message. e. Take RD CMPTR ACTION. 	

TAIS No. 1008MODULE FMUNIT FM4

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 8.0

TASK ELEMENTS: 8.1 - 8.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
	<p>8.3.4 Given information to transmit a RFAF to Div Arty, the student will identify the data to simulate completion of the FM;CMD input message. Data entries will include:</p> <ul style="list-style-type: none">• Target number.• Transmit command. <p>8.3.5 Pick from a list the reason that the TO field in the FM;CMD message must be left blank when transmitting a RFAF to Div Arty as being: TO ENSURE THAT THE TRANSMITTED RFAF IS NOT IN THE BATTALION FORMAT.</p> <p>8.3.6 State VOICE OR SYS;PTM as being the method of notifying Div Arty if control for a RFAF is to be other than WR/FFE.</p> <p>8.4.1 Pick from a list the SPA switch action to take to display the AFU;MFR message as being: CYCLE MESSAGES.</p>

SIS No. 1008

MODULE FM
UNIT FM4

TEST ITEMS

TASK IDENTIFICATION: 8.0

TASK ELEMENTS: 8.1 - 8.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>8.1 You have received a FM from one of your FOS. Processing of the initial request for fire will indicate that an additional request for fire (RFAF) to Div Arty is recommended. However, the FDO does not want to transmit the RFAF. Put the following steps to process this type of fire request in the correct order.</p> <p>a. Press RD XMIT.</p> <p>b. PAGE and review each message segment.</p> <p>c. Take DELETE action on RFAF to Div Arty.</p> <p>d. Display FM;RFAF.</p> <p><u>(d, b, c, a)</u></p>	<p>8.1.1 In a series of message segments for an initial request for fire, a RFAF to Div Arty, when generated is which one of the following:</p> <p>a. Message segment 1.</p> <p>b. The message segment following the MFR.</p> <p>*c. The message segment that follows the fire commands to the FUs.</p> <p>d. The message segment preceeding the errors and warning message segment.</p> <p>8.1.2 From the following list, match each mnemonic with its definition and function.</p> <p>a. Indicates the percent of desired effects.</p> <p>b. Specifies the desired number of volleys.</p> <p>c. The estimated effects in percent that is obtainable by the originating Bn.</p> <p>VOL <u>(b)</u></p> <p>MYEFF <u>(c)</u></p> <p>EFF <u>(a)</u></p>
<p>8.2 The FO has requested an adjust fire on the fire mission that recommends a RFAF to Div Arty. Put the following steps in the correct order to process the adjust fire phase of this fire mission.</p> <p>a. PAGE and review each message segment.</p> <p>b. Display FM;SUBS message segment.</p> <p>c. Press RD XMIT.</p> <p><u>(b, a, c)</u></p>	

TASK No. 1008

MODULE FM
UNIT FM4

TEST ITEMS

TASK IDENTIFICATION: 8.0

TASK ELEMENTS: 8.1 - 8.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>8.3.A. The FO has transmitted FFE for the FM recommending a RFAF to Div Arty. Put the following steps in the correct order to complete this phase of the fire mission.</p> <ol style="list-style-type: none"> 1) Enter TGT and specify XMIT in FM;CMD message. 2) Display FM;SUBS message segment. 3) Select and display FM;CMD message. <p><u>(2, 3, 1)</u></p> <p>B. What switch is taken to transmit the RFAF to Div Arty? <u>(C/ED CMPTR ACTION)</u></p> <p>C. The switch action to take to transmit the FFE fire commands to the FUS is: <u>(RD XMIT)</u></p> <p>8.4.A. The FO transmits EOM for the FM requiring support from Div Arty. Put in the correct order the steps to transmit the EOM messages to the FUS.</p> <ol style="list-style-type: none"> 1) Press RD XMIT. 2) Display FM;SUBS message segment. 3) PAGE and review each EOM message segment. <p><u>(2, 3, 1)</u></p>	<p>8.1.3 Refer to Figure _____, which shows a message segment as displayed on the RD.</p> <ol style="list-style-type: none"> a. No addressee in the SB field of the communication line indicates this is a RFAF to Div Arty? <u>(True/False)</u> b. What percent is the estimated effects for the originating Bn? <u>(2%)</u> c. The percent of desired effects is? <u>(30%)</u> d. Pick from the following list the subfields that serve as indicators that the message segment is a RFAF to Div Arty. <p>*1) FM;RFAF:X;</p> <p>2) TGT:BB0033;</p> <p>3) DOP:PRUG;</p> <p>*4) MYEFF: 2;</p> <p><u>(1,4)</u></p>

SIS No. 1008

MODULE FM
UNIT FM4

TEST ITEMS

TASK IDENTIFICATION: 8.0

TASK ELEMENTS: 8.1 - 8.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>8.4 B. To update the Bn ammo files and send results of the FM to Div Arty, you would take RD CMPTR ACTION after displaying and reviewing the <u>(AFU;MFR)</u> message.</p>	<p>8.1.4 What is the action to take concerning a RFAF to Div Arty in the initial request for fire when adjust fire must be performed?</p> <ul style="list-style-type: none"> a. Transmit RFAF immediately to Div Arty. b. Communicate with Div Arty using the SYS;PTM message format. *c. Delete Div Arty RFAF from RD queue. d. Transfer to the CED and make necessary changes.
	<p>8.1.5 What SPA switch action do you take to transmit the initial fire commands to the FUs?</p> <ul style="list-style-type: none"> a. PAGE. *b. RD XMIT. c. REPLACE. d. XMIT.
	<p>8.1.6 When RD XMIT is taken and not all addressees in the segmented messages are in the subscriber table, the computer will indicate:</p> <ul style="list-style-type: none"> *a. ILLEGAL SUBSCRIBER. b. ENTER NAME OF SUBSCRIBER. c. RETRANSMIT. d. MSG NOT SENT TO (subscriber).

TAIS No. 1008

4-59

MODULE FM
UNIT FM4

TEST ITEMS

TASK IDENTIFICATION: 8.0

TASK ELEMENTS: 8.1 - 8.4

CRITERION ITEM(S)	ENABLING ITEM(S)
	<p>8.3.1 What is the FM message format that is used to transmit a RFAF message segment to Div Arty after adjust fire has taken place?</p> <p>a. FM;SUBS.</p> <p>b. FM;MOD.</p> <p>c. FM;RFAF.</p> <p>*d. FM;COMD.</p> <p>8.3.2 A. Refer to Figure _____. You are processing the FFE phase of a FM that recommends a RFAF to Div Arty. To transmit this RFAF message segment to Div Arty, you must select the correct message format. To do this you must depress the format matrix switches (G) and (8) ?</p> <p>B. To display the FM;COMD message format on the CED, what switch must you activate? (FORMAT COMMAND)</p> <p>8.3.3 After being selected, the FM;COMD message format will display on the (CED/RD)?</p> <p>8.3.4 Process of a FM has recommended that a RFAF be transmitted to Div Arty. The FM has reached the FFE phase and the RFAF needs to be transmitted to Div Arty. You have already selected the FM;COMD message format. Which two subfields must be entered? (TGT and XMIT)</p>

FAIS No. 1008

MODULE FM
UNIT FM4

TEST ITEMS

TASK IDENTIFICATION: 8.0

TASK ELEMENTS: 8.1 - 8.4

CRITERION ITEM(S)	ENABLING ITEM(S)
	<p>8.3.5 The reason the TO subfield in the FM;CMD message is left blank when transmitting a RFAF to Div Arty is:</p> <ul style="list-style-type: none">a. The destination of the message is already known.*b. To cause the transmitted RFAF to be in the Div Arty format.c. Div Arty is not a legal subscriber. <p>8.3.6 When the method of control for the RFAF to Div Arty is not WR/FFE, the ACC operator must notify Div Arty of the desired control by using the SYS;PTM message or by <u>(Voice)</u>.</p> <p>8.4.1 The SPA switch that is used to display the AFU;MFR message on the RD is the? <u>(CYCLE MESSAGES)</u></p>

TAIS No. 1009MODULE FMUNIT QF

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 9.0
2. TASK: Process a fire mission against a target established as a known point.
3. CONDITIONS: Given situation to process a quick fire (QF) mission against a known point target, identify correct procedures. Given fire mission message segments, interpret messages. Given different formatted test items concerning the processing of a QF mission, provide correct response.
4. STANDARD: No errors
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
9.1 Display FM;QF message.	9.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
9.2 Interpret message formats.	9.2 Able to decode mnemonics.	2. Entry data and FM;QF, FM;RFAF, FM;FC, FM;SUBS, and AFU;MFR formats.	Chapter 3 Pages 3-29 through 3-102;
9.3 Transmit fire commands to FUs.	9.3 Know operation of ACC component parts.		Chapter 9 Pages 9-1 through 9-93;
9.4 Process end of mission.	9.4 Know operation of ACC component parts.	3. Additional material to developed as required.	9-119 through 9-185; 9-209 through 9-240.

TAIS No. 1009MODULE FM
UNIT QF

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 9.0

TASK ELEMENTS: 9.1 - 9.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
9.1 The student can identify the procedures to display a FM;QF message on the RD as being: PRESS PRIORITY MESSAGE SWITCH OR CYCLE MESSAGES SWITCH.	9.1.1 Pick from a list the initial FM message that is generated for quick fire requests as being: FM;QF.
9.2 Given a FM;QF as displayed on the RD, the student can interpret the contents (To be developed)	9.1.2 State FORWARD OBSERVER as being the person who initiates a quick fire request.
9.3 The student can state the action to take to transmit the FM;QF message segments to the FUs as being: RD XMIT.	9.1.3 Pick from a list the information transmitted by the observer that is used by the computer to determine target number and location for a quick fire target as being: KNOWN POINT NUMBER.
9.4 A. When presented with a list of sequence statements describing the end of mission processing after FFE has been completed for a quick fire request mission, but with the steps in a scrambled order, the student can state the correct order in which this processing occurs. The correct order is: 1) Display FM;SUBS and EOM messages for FUs. 2) Press RD XMIT. 3) Display and review AFU;MFR message. 4) Take RD CMPTR ACTION.	9.2.1 Match the following mnemonics with their definition and function. a. FIRE - Fire upon the known point specified. b. TGT - Target number. c. KNPT - Known point number. Note: Explanation of additional mnemonics will be included within the instructional material for student review.
	9.2.2 Pick from a list the method of control established for the adjusting battery by the computer unless changed by the ACC Operator as being: WR/FFE.

TAIS No. 1009MODULE FMUNIT QF

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 9.0

TASK ELEMENTS: 9.1 - 9.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>9.4 B. The student can select from a list the results of taking computer action on the AFU;MFR message as being:</p> <ol style="list-style-type: none"> 1) Bn AFU files are updated. 2) Information is transmitted to Div Arty. 	<p>9.2.3 A. Select from a list the messages generated as a result of processing the FM;QF initial request as being:</p> <ol style="list-style-type: none"> 1) FM;QF message. 2) FM;5205 if any warnings or errors. 3) FM;FC for firing units. 4) FM;RFAF for Div Arty if required. <p>B. Pick from a list where the messages generated as a result of processing a quick fire request are output as being:</p> <ol style="list-style-type: none"> 1) Printed on ELP. 2) Receive Queue.

IAIS No. 1009

MODULE FM
UNIT QF

TEST ITEMS

TASK IDENTIFICATION: 9.0

TASK ELEMENTS: 9.1 - 9.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>9.1 A. A FO has requested a quick fire mission be executed on a known point. To display the FM;QF message on the RD you must first:</p> <ol style="list-style-type: none"> 1) Press the FPF switch. 2) Press the PAGE switch. 3) Press the CYCLE MESSAGES switch. *4) Press the PRIORITY MESSAGE switch. <p>B. If the FM;QF is not displayed after pressing the PRIORITY MESSAGE switch, the SPA switch that must be used to bring the message to the top of the receive queue so it will be displayed is the? <u>(CYCLE MESSAGES)</u></p>	<p>9.1.1 The initial FM message that is generated as a result of a quick fire request is:</p> <ol style="list-style-type: none"> *a. FM;QF. b. FM;RFAF. c. FM;SUBS. d. FM;DIR. <p>9.1.2 The person who most often initiates a quick fire request because of his tactical position is the: <u>(FORWARD OBSERVER)</u>.</p> <p>9.1.3 The information that the observer transmits in the request for quick fire that the computer uses to determine the target number and location is:</p> <ol style="list-style-type: none"> a. Date-time-group. b. Target coordinates. *c. Known point number. d. Target altitude.
<p>9.2 Refer to Figure _____ which shows a processed FM;QF message.</p> <ol style="list-style-type: none"> 1. How do you know this message is a request for quick fire on a known point? <ol style="list-style-type: none"> a. FPF: ; is blank. *b. FIRE:X; is specified. c. OB: ; is blank. d. TGT has an entry. 2. The target number for the known point is: <u>(AG7004)</u>. 	

FAIS No. 1009MODULE FMUNIT QF

TEST ITEMS

TASK IDENTIFICATION: 9.0

TASK ELEMENTS: 9.1 - 9.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>9.2 3. The entry KNPT: 2; indicates:</p> <ul style="list-style-type: none"> a. The known point is at MAP MOD position 2. *b. The target is known point 2 in the KNPT file. c. The coordinates are position 2. 	<p>9.2.1 From the following list, match each mnemonic with its definition and function.</p> <ul style="list-style-type: none"> a. Fire upon the known point specified. b. To specify the known point number. c. Target number. <p>FIRE <u>(a)</u></p> <p>TGT <u>(c)</u></p> <p>KNPT <u>(b)</u></p>
<p>9.3 What switch action do you take to transmit the FM;QF message segments to the FUs?</p> <ul style="list-style-type: none"> a. C/ED CMPTR ACTION. b. RD CMPTR ACTION. *c. RD XMIT. d. XMIT. 	<p>9.2.2 The method of fire control that is initially established by the computer for a quick fire mission unless changed by operator action is:</p> <ul style="list-style-type: none"> a. AMC/AF b. DNL c. WR/AF *d. WR/FFE
<p>9.4 A. A FO has requested a quick fire mission on a known point. The FUs have completed firing for effect and the FO has transmitted the EOM results. Put the following steps for the EOM processing in the correct order.</p> <ul style="list-style-type: none"> 1) Take RD CMPTR ACTION. 2) Display FM;SUBS and EOM messages for FUs. 3) Press RD XMIT. 4) Display and review AFU;MFR message. <p><u>(2, 3, 4, 1)</u></p>	

TAIS No. 1009MODULE FMUNIT QF

TEST ITEMS

TASK IDENTIFICATION: 9.0

TASK ELEMENTS: 9.1 - 9.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>9.4 B. After taking computer action on the AFU;MFR message for a FM;QF fire mission, the Bn ammunition files are updated and the information is transmitted to: <u>(DIV ARTY)</u>.</p>	<p>9.2.3 A. Pick the type of fire command message segments that can be generated as a result of processing a FM;QF initial quick fire request.</p> <ul style="list-style-type: none"> 1) FM;SUBS message. *2) FM;RFAF for Div Arty if required. *3) FM;QF message. 4) AFU;MFR message. *5) FM;FC for firing units. *6) FM;5205 if any warning or error messages. <p><u>(2, 3, 5, 6)</u></p> <p>B. Messages generated by the computer as a result of processing a quick fire (FM;QF) request are output to the receive queue and:</p> <ul style="list-style-type: none"> 1) Displayed on the CED. 2) Displayed on the DPM. *3) Printed on the ELP.

TAIS No. 1010MODULE FMUNIT OBCO

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 10.0

2. TASK: Update location of Forward Observer and verify entries.

3. CONDITIONS: Given requirement to change the location of a FO, select correct message format and fill in appropriate entries.
 Given sample FM 5208 OB LIST output message, interpret message contents.
 Given **different** formatted test items concerning updating the location of a FO and FM 5208 OB LIST output message, provide correct response.

4. STANDARD: No errors.

5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
10.1 Select and display FM;OBCO message.	10.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
10.2 Identify entries for FO location.	10.2 Know operation of ACC component parts.	2. Picture of FM directory message.	Chapter 3 Pages 3-29 through 3-102.
10.3 Take computer action and identify results.	10.3 Know computer action.	3. Entry data and FM;OBCO format.	Chapter 9 Pages 9-1 through 9-93; 9-119 through 9-185; 9-209 through 9-240.
10.4 Print FM 5208 OB LIST output message.	10.4 Know how to select and display messages using format matrix switches.	4. Picture of a FM 5208 OB LIST output message.	
10.5 Interpret FM 5208 OB LIST output message.	10.5 Able to decide mnemonics.	5. Additional material to be developed as required.	

TAIS No. 1010MODULE FM
UNIT OBCO

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 10.0

TASK ELEMENTS: 10.1 - 10.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>10.1 A. Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the FM;OBCO message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ol style="list-style-type: none"> 1) Depress switches F and 8. 2) Activate FORMAT COMMAND switch. <p>B. As an alternate method, using the above picture/drawing and a picture of the FM directory message, the student can indicate the switch actions to take to select the FM;OBCO message using the FM directory message. The correct steps are:</p> <ol style="list-style-type: none"> 1) Depress switches H and 8. 2) Activate FORMAT COMMAND switch. 3) After the FM directory message is displayed on the CED, move cursor under letter O to select observer message format. 4) Activate the FORMAT SELECT switch. 	<p>10.1.1 Pick from a list the message format to use to enter or update the Observers File as being: FM;OBCO.</p> <p>10.1.2 Pick from a list where the FM;OBCO message is displayed after being selected as being: ON THE CED.</p> <p>10.1.3 Select from a list the message format to use to select any of the FM message formats as being: FM;DIR.</p> <p>10.2.1 Pick from a list the default condition when the grid zone is not specified as being: MAP MOD GRID ZONE IS ASSUMED.</p> <p>10.3.1 Pick from a list the error message output when the observer specified is not in the observer table as being: INVALID OBSERVER.</p> <p>10.4.1 Identify FM;COMD as being the message format used to print the Observer File.</p> <p>10.4.2 Select from a list the two entries required in the FM;COMD to print out the Observer File as being: PRINT AND OBF.</p>

TAIS No. 1010

MODULE FMUNIT OBCO

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 10.0

TASK ELEMENTS: 10.1 - 10.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>10.2 Given the information for a new location for a FO, the student will identify the data to simulate completion of the FM;OBCO input message. Data entries will include:</p> <ul style="list-style-type: none"> • Observer's identifying number. • Observer's coordinates. <p>(Data to be specified)</p> <p>10.3 A. The student can identify the switch action to take to process the completed FM;OBCO message as being: C/ED CMPTR ACTION.</p> <p>B. The student can select from a list the results of taking computer action on a FM;OBCO message as being:</p> <ol style="list-style-type: none"> 1) Observer file is updated. 2) FM 5208 OB LIST entry for specific observer is printed on ELP. <p>10.4 When presented with a list of procedures to print the FM 5208 OB LIST output message, but with the steps in scrambled order, the student can state the correct order in which these procedures are performed. The correct order is:</p> <ol style="list-style-type: none"> a. Select and display FM;CMD. b. Specify OBF and PRINT. c. Take C/ED CMPTR ACTION. 	<p>10.4.3 Match the following mnemonics with their definition and function:</p> <ol style="list-style-type: none"> a. OB - Observer Number b. CORD - Observer location c. SPHERE - Spheroid code d. UFFEE - Unit to fire final protective fire (FPF) for designated observer.

TAIS No. 1010MODULE FMUNIT ORCO

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 10.0

TASK ELEMENTS: 10.1 - 10.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>10.5 Given a FM 5208 OB LIST output message as printed on the ELP, the student is able to interpret the contents of the message.</p> <p>(To be developed)</p>	

TEST ITEMS

TASK IDENTIFICATION: 10.0

TASK ELEMENTS: 10.1 ~ 10.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>10.1 A. Refer to Figure ____.</p> <p>An FO has relocated to meet the changing tactical situation and his new location must be entered into the observers file. To do this you must select the appropriate message format and enter the information. From the list of steps given below, first <u>select</u> the procedural steps required and then <u>place</u> them in the correct order.</p> <ol style="list-style-type: none"> 1. Depress switches 8 and C. 2. Depress switches D and 7. 3. Activate FORMAT COMMAND switch. *4. Activate FORMAT SELECT switch. *5. Depress switches 8 and F. <p>(5, 4)</p>	<p>10.1.1 What is the message format that is used to enter or update the observers file?</p> <ol style="list-style-type: none"> a. FM;QF b. FM;COMD *c. FM;OBCO d. FM;EOM <p>10.1.2 After being selected by the format matrix switches, the FM;OBCO message format appears on the (RD/CED) display.</p> <p>10.1.3 What is the message format that is used from which any specific FM message format can be selected?</p> <ol style="list-style-type: none"> a. FM;SUBS b. FM;COMD c. FM;MOD *d. FM;DIR <p>10.2.1 When the grid zone is not specified in the FM;OBCO message, the grid zone that is assumed (default condition) by the computer is the:</p> <ol style="list-style-type: none"> a. FU grid zone. *b. MAP MOD grid zone. c. Reinforcing Bn grid zone. d. Grid zone is not required.

FORM No. 1010

MODULE FM
UNIT OBCO

TEST ITEMS

TASK IDENTIFICATION: 10.0

TASK ELEMENTS: 10.1 - 10.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>10.1 B. Refer to Figures ___ and ___. Put in the correct order the procedural steps to select the FM observer location message using the FM directory message.</p> <ol style="list-style-type: none"> 1. Activate the FORMAT SELECT switch. 2. Activate the FORMAT COMMAND switch. 3. After the FM directory message is displayed on the CED, move cursor under letter O to select observer message format. 4. Depress switches H and 8. <p>(4, 2, 3, 1)</p>	<p>10.3.1 The observers in the Observer File are identified as Observer 01 through 20. If you entered OB:30; in the FM;OBCO message, the computer indicates:</p> <ol style="list-style-type: none"> a. NUMBER TOO LARGE. b. NEW OBSERVER ADDED TO FILE. c. REENTER OB NUMBER. *d. INVALID OBSERVER.
<p>10.2 To improve his tactical position, one of the observers has moved. You have already selected the FM;OBCO format message (Figure 1) and now must enter the information. Answer the following questions concerning the entry of data into the FM;OBCO message format:</p> <p>(Sample data and questions)</p>	<p>10.4.1 The FM message to use to print out the Observers File is:</p> <ol style="list-style-type: none"> a. FM;OB *b. FM;COMD c. FM;RFAF d. FM;CHECK <p>10.4.2 To print the Observers File using the FM;COMD message you must specify PRINT:X; and:</p> <ol style="list-style-type: none"> a. OB:X; b. TGTLST:X; *c. OBF:X; d. OB:X; ;OBF:X;

AIS No. 1010

MODULE FM
UNIT OBCO

TEST ITEMS

TASK IDENTIFICATION: 10.0

TASK ELEMENTS: 10.1 - 10.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>10.2 Data to be included in Figure J:</p> <ul style="list-style-type: none"> Observer's identifying number 03 Observer's coordinates <ul style="list-style-type: none"> Easting 53000 Northing 40800 Altitude 320 <p>Refer to Figures I and J for the following questions:</p> <ol style="list-style-type: none"> Which of the following is the correct entry to identify the observer? <ol style="list-style-type: none"> OBCO;OB: X; *b. OB:03; c. OB;03; d. OB:30; Which of the following is the correct entry for the observer's location? <ol style="list-style-type: none"> *a. CORD:53000/40800 /320; b. CORD:40800/53000 /320; c. CORD: 320/53000 /40800; 	<p>10.4.3 From the following list, match each mnemonic with its definition and function.</p> <ol style="list-style-type: none"> Observer number. Observer location. Spheriod code. Unit to fire final protective fire for designated observer. <p>CORD (b)</p> <p>SPHERE (c)</p> <p>OB (a)</p> <p>UFFEE (d)</p>

NAIS No. 1010

MODULE FM
UNIT OBCO

TEST ITEMS

TASK IDENTIFICATION: 10.0

TASK ELEMENTS: 10.1 - 10.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>10.3 A. The switch to take to process the completed FM;OBCO message is:</p> <ul style="list-style-type: none">a. FORMAT SELECT*b. C/ED CMPTR ACTIONc. RD XMITd. RD CMPTR ACTION <p>B. Pick the results that occur after taking C/ED CMPTR ACTION on a FM;OBCO message.</p> <ul style="list-style-type: none">a. Observer location is displayed on RD.*b. Observer file is updated.*c. FM 5208 OB LIST entry for specific observer is printed on ELP.d. FM 5208 OB LIST is displayed on RD.e. Observer's location is printed on DPM. <p>(b, c)</p>	

IAIS No. 1010

MODULE FM
UNIT OBCO

TEST ITEMS

TASK IDENTIFICATION: 10.0

TASK ELEMENTS: 10.1 - 10.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>10.4 You want to review the Observers File to verify the latest observer location entered. Put in the correct order the steps to print the FM 5208 OB LIST output message.</p> <p>a. Take C/ED CMPTR ACTION.</p> <p>b. Specify OBF and PRINT.</p> <p>c. Select and display FM;CMD.</p> <p><u>(c, b, a)</u></p>	
<p>10.5 Refer to Figure ____ which shows a FM 5208 OB LIST output message.</p> <p>1. How many observers does the Observer File contain? <u>(6)</u></p> <p>2. The classification of the OB LIST is indicated as:</p> <p>a. Secret</p> <p>b. Confidential</p> <p>*c. Unclassified</p> <p>d. Not indicated</p> <p>3. The location of Observer 03 is indicated as:</p> <p>a. CORD:552000/3840300/ 340;</p> <p>*b. CORD:551500/3840800/ 350;</p> <p>c. CORD:547500/3840550/ 400;</p> <p>d. CORD:546600/3842700/ 400;</p>	

20 August 1975

4-76

System Development Corporation
TM-5544/001/00

Module 2: Artillery Target Intelligence Function (ATI)

TAIS No. 2001MODULE ATI
UNIT INTRO

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 1.0
2. TASK: State the purpose and use of ATI messages.
3. CONDITIONS: Given different formatted test items concerning the purpose of the ATI messages, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
1.1 State purpose of ATI messages.	1.1 None.	None	DTM 11-7440-240-10
1.2 State use of ATI messages.	1.2 None.		Chapter 4 Pages 4-187 through 4-188C Chapter 11 Pages 11-2; 11-5; 11-9 through 11-17; 11-45 through 11-56.

TAIS No. 2001MODULE ATIUNIT INTRO

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1 - 1.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
1.1 The student is able to pick from a list the purpose of ATI messages as being to: STORE INFORMATION ON ENEMY TARGETS AT DIVISION.	1.1.1 Pick from a list the definition of the TACFIRE mnemonic ATI as being: ARTILLERY TARGET INTELLIGENCE.
1.2 The student is able to state FIRE PLANNING as being a major use for ATI data.	

TAIS No. 2001MODULE ATI
UNIT INTRO

TEST ITEMS

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1-1.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>1.1 ATI messages are used to:</p> <ul style="list-style-type: none"> *a. Store information at Div Arty on enemy targets b. Process information on tanks at the Battery level c. Store information on ammunition expended and tanks intercepted at Battery level d. Update weather and geometry data stored in the Battalion TACFIRE system <p>1.2 A major use of artillery target information occurs in <u>(fire planning)</u>?</p>	<p>1.1.1 The mnemonic ATI stands for the TACFIRE function:</p> <ul style="list-style-type: none"> a. Army Target Information b. Artillery Tactical Information *c. Artillery Target Intelligence d. Artillery Target Input

TAIS No. 2002MODULE ATIUNIT CDR

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 2.0
2. TASK: Process target location information (grid coordinates) received by voice communication.
3. CONDITIONS: Given FO information by voice concerning target location, select correct message format and fill in appropriate entries.
Given different formatted test items concerning the processing of target location information (grid coordinates) provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
2.1 Select and display ATI;CDR.	2.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
2.2 Identify entries for target location information.	2.2 Know operation of ACC component parts.	2. Picture of the ATI directory message.	Chapter 4 Pages 4-187 through 4-188C
2.3 Transmit to Div Arty.	2.3 Know operation of ACC component parts.	3. Additional material to be developed as required.	Chapter 11 Pages 11-2; 11-5; 11-9 through 11-17; 11-45 through 11-56.

TAIS No. 2002

MODULE ATI
UNIT CDR

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.3

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>2.1 A. Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the ATI;CDR message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ol style="list-style-type: none"> 1) Depress switches A and 6 2) Activate FORMAT COMMAND switch <p>B. As an alternate method, using the above picture/drawing, and a picture of the ATI directory message, the student can indicate the switch actions to take to select the ATI;CDR message using the ATI directory message. The correct steps are:</p> <ol style="list-style-type: none"> 1) Depress switches H and 6 2) Activate FORMAT COMMAND switch 3) After the ATI directory message is displayed on the CED, move cursor under letter C to select CDR message format 4) Activate the FORMAT SELECT switch 	<p>2.1.1 Select from a list the ATI message type used to indicate the location (grid coordinates) of a target as being: CDR.</p> <p>2.2.1 Match the following mnemonics with their definition and function:</p> <ol style="list-style-type: none"> a. AGCY - Originating agency b. CORD - Target location c. TYPE - Target type and subtype d. SIZE - Target size <p>Note: Explanation of additional mnemonics will be included within the instructional material for student review.</p>

TAIS No. 2002MODULE ATIUNIT CDR

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.3

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>2.2 Given information concerning the location of a target, the student will identify the data to simulate completion of the ATI;CDR input message.</p> <p>Data entries will include:</p> <ul style="list-style-type: none">• Originating agency• Do-Not-Combine indicator• Grid coordinates• Target type• Target size <p>(Data to be specified)</p> <p>2.3 The student is able to identify the switch action to take to transmit the information as being: C/ED CMPTR ACTION.</p>	

TAIS No. 2002MODULE ATIUNIT CDR

TEST ITEMS

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.3

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>2.1 A. Refer to Figure _____. Assume one of your FO's has just communicated by voice the grid coordinates for a target and you must select the coordinate report message format so you can enter the information. From the list of steps given below, first <u>select</u> the procedural steps required and then <u>place</u> them in the correct order.</p> <ol style="list-style-type: none"> 1) Activate FORMAT SELECT switch *2) Activate FORMAT COMMAND switch *3) Depress switches A and 6 4) Depress switches D and 6 5) Activate C/ED CMPTR ACTION switch <p><u>(3, 2)</u></p> <p>B. Refer to Figures _____ and _____. From the following list of steps, indicate how you would select the ATI coordinate message format using the ATI directory message:</p> <ol style="list-style-type: none"> 1) The first step is to depress switches (<u>H</u>) and (<u>6</u>). 2) The second step is to activate the FORMAT (<u>COMMAND/SELECT</u>) switch. 	<p>2.1.1 The ATI message used to indicate the grid coordinates of a target is:</p> <ol style="list-style-type: none"> a. SRI b. SVL c. CRD *d. CDR <p>2.2.1 From the following list match each mnemonic with its definition and function:</p> <ol style="list-style-type: none"> a. Report value b. Target type and subtype c. Do-not-combine d. Target size e. Originating agency f. Degree of protection g. Easting, northing, altitude target location <p>AGCY (<u>e</u>)</p> <p>TYPE (<u>b</u>)</p> <p>CORD (<u>g</u>)</p> <p>RV (<u>a</u>)</p>

TAIS No. 2002

MODULE ATI
UNIT CDR

TEST ITEMS

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.3

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>2.1 3) After the ATI directory message is displayed on the CED, the third step is to place the cursor under the letter C to select the CDR format. The last step (step 4) is to activate the <u>FORMAT (COMMAND/SELECT)</u> switch.</p> <p>2.2 Assume the information contained in Figure A concerning the location of a target has been received by voice from one of your FO's. You have already selected the ATI;CDR format (Figure B) and must now enter the information. Answer the following questions concerning the entry of data into the ATI;CDR message format.</p> <p>(Sample data and questions)</p> <p>Data to be included in Figure A.</p> <ul style="list-style-type: none"> • Observer to FDC • Target Information <p style="margin-left: 40px;">GRID 37003300 CONCRETE BUILDING 100 BY 50 ALTITUDE 240</p> <p>Use Figures A and B for the following questions:</p> <p>1) Which of the following is the correct entry for the originating agency.</p> <ul style="list-style-type: none"> a. TGT:FO b. AGCY:FORWARD *c. AGCY:FO d. DNA:FOWOL 	

TAIS No. 2002MODULE ATI
UNIT CDR

TEST ITEMS

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.3

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>2.2 2) Which of the following is the correct entry for the grid information in line 2:</p> <p>*a. CORD:37000/33000 /240 ;</p> <p>b. CORD:33000/37000 / / ;</p> <p>c. CORD: 240/37000/33000 ;</p> <p>3) Which of the following is the correct entry for type of target:</p> <p>a. TYPE: CONC/BLDG ;</p> <p>b. TYPE: CONC/BUILD;</p> <p>c. TYPE: BUILD/CONC ;</p> <p>*d. TYPE: BLDG/CONC ;</p> <p>4) The size of the target would be entered as:</p> <p>(a) STR: 100 ;</p> <p>*b) SIZE:100 /50 ;</p> <p>(c) STR:50 ;</p> <p>(d) SIZE:50 /100 ;</p>	
<p>2.3 The switch action to take to transmit a completed ATI;CDR message to Div Arty is:</p> <p>a. PRINT</p> <p>b. MESSAGE ADDRESS</p> <p>*c. C/ED CMPTR ACTION</p> <p>d. RD CMPTR ACTION</p>	

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 3.0
2. TASK: Request ATI data (SRI) be transmitted from Div Arty to Bn automatically unless deleted and interpret Div Arty acknowledge message and ATI:TGR output message.
3. CONDITIONS: Given requirement to request potential target information contained within a specified circular area, select correct message format and fill in appropriate entries.

Given sample Div Arty acknowledge message and ATI:TGR output message, interpret message contents.

Given different formatted test items concerning requesting ATI data be transmitted from Div Arty to Bn, acknowledge message and ATI:TGR reports, provide correct response.

4. STANDARD: No errors.

5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
3.1 Select and display ATI;SRI message.	3.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
3.2 Identify entries for standing request for information.	3.2 Know operation of ACC component parts.	2. Entry data and ATI;SRI message format.	Chapter 4 Pages 4-187 through 4-188C
3.3 Transmit to Div Arty.	3.3 Know operation of ACC component parts.		Chapter 11 Pages 11-2; 11-5; 11-9 through 11-17; 11-45 through 11-56.
3.4 Interpret Div Arty acknowledge message.	3.4 Ability to decode mnemonics presented.	3. Sample Div Arty acknowledge message.	
3.5 Interpret sample ATI:TGR output message from Div Arty.	3.5 Ability to decode mnemonics and translate data entries.	4. Sample ATI:TGR output message. 5. Additional material to be developed as required.	

TAIS No. 2003

MODULE ATI
UNIT SRI

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>3.1 Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the ATI;SRI message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <p>a. Depress switches F and 6.</p> <p>b. Activate FORMAT COMMAND switch.</p> <p>3.2 Given information to generate a standing request for target information from Div Arty to the requesting Bn, the student will identify the data to simulate completion of the ATI;SRI input message.</p> <p>Data entries will include:</p> <ul style="list-style-type: none"> • Search coordinate reports • Circular search area • Type of target • Destination for requested data <p>(Data to be specified)</p> <p>3.3 The student is able to identify the switch action to take to transmit the request to Div Arty as being: C/ED CMPTR ACTION.</p>	<p>3.1.1 State that SRI stands for STANDING REQUEST FOR INFORMATION.</p> <p>3.1.2 Select from a list the purpose of the SRI message as being: TO ESTABLISH CRITERIA FOR TARGET INFORMATION RECEIVED AT DIV ARTY TO BE SENT TO A REQUESTING BN.</p> <p>3.2.1 Match the following mnemonics with their definition:</p> <p>a. CDRPT - Search coordinate reports</p> <p>b. CIR - Circular search area</p> <p>Note: Explanation of additional mnemonics will be included within the instructional material for student review.</p> <p>3.2.2 Pick from a list the only required entry in the ATI;SRI message as being: TO.</p> <p>3.2.3 Select from a list how long a standing request for information will be sent from Div Arty to the requesting Battalion as being: AUTOMATICALLY UNTIL DELETED BY AN SRI MESSAGE.</p> <p>3.4.1 Match that when a Div Arty acknowledgement message is received at Bn for an ATI;SRI message, it is:</p> <p>a. Printed on the ELP.</p> <p>b. Not displayed on the RD.</p> <p>3.5.1 State how target information sent from Div Arty to Bn as a result of an ATI;SRI message is received at Bn as being: PRINTED ON THE ELP.</p>

TAIS No. 3003MODULE ATI
UNIT SRI

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>3.4 Given an acknowledge message from Div Arty, the student is able to interpret the contents of the message. (To be developed)</p> <p>3.5 Given a SRI report from Div Arty, the student is able to interpret the contents of the message. (To be developed)</p>	<p>3.5.2 Match the following mnemonics with their definition:</p> <ul style="list-style-type: none"> a. DNC - Do-not combine b. DOP - Degree of protection c. STR - Strength of target d. RV - Report value e. REL - Reliability of target report f. MASKTI - Level of training in CBR protection

TAIS No. 2003MODULE ATI
UNIT SRI

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.1 Refer to Figure _____. Assume your Bn wishes to have information concerning enemy infantry within a given area sent to it as soon as Div Arty receives it. The information is to be sent automatically until the request is deleted. From the list of steps given below, first <u>select</u> the procedural steps required and then <u>place</u> them in the correct order:</p> <p>*a. Depress switches F and 6</p> <p>b. Activate PRIORITY MESSAGE switch</p> <p>c. Activate C/ED CMPTR ACTION switch</p> <p>*d. Activate FORMAT COMMAND switch</p> <p>e. Depress switches E and 6</p> <p>(a, d)</p> <p>3.2 Your Bn S-3 wishes to have any information received at Div Arty concerning target information about infantry personnel within a given area sent automatically. You have already selected the ATI;SRI format message (Figure C) and must now enter the information. Answer the following questions concerning the entry of data into the ATI;SRI message format.</p> <p>(Sample data and questions)</p>	<p>3.1.1 What does the ATI input message SRI stand for? (<u>Standing Request for Information</u>)</p> <p>3.1.2 The purpose of the SRI input message is to:</p> <p>a. Establish criteria for logistic information received at Div Arty to be sent to a requesting Bn.</p> <p>*b. Establish criteria for target information received at Div Arty to be sent to a requesting Bn.</p> <p>c. Establish the number of targets that can be stored in the TACFIRE computer.</p> <p>d. Delete target information from the Bn TACFIRE computer.</p> <p>3.2.1 From the following list, match each mnemonic with its definition and function:</p> <p>a. Target strength limits</p> <p>b. Circular search area</p> <p>c. Confirmed target</p> <p>d. Search all coordinate reports</p> <p>CIR (b)</p> <p>CDRPT (d)</p> <p>3.2.2. The only required entry in the ATI; SRI message in addition to specifying the requested data follows the mnemonic (<u>TO</u>)?</p>

TAIS No. 2003MODULE ATI
UNIT SRI

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.2 Data to be included in Figure D.</p> <ul style="list-style-type: none"> • Search all coordinate reports for requested target data • A circular search is desired <ul style="list-style-type: none"> Easting 85000 Northing 50200 Radius 2000 • Targets of interest are infantry personnel • Send information to 1st Bn of the 105th Regiment <p>Refer to Figures C and D for the following questions:</p> <p>1. The mnemonic to specify to have all coordinate reports searched for the requested target data is:</p> <ul style="list-style-type: none"> *a. CDRPT:X b. SHRPT:X c. SOLRPT:X d. ZONE:X <p>2. Which of the following is the correct entry to specify a circular search area:</p> <ul style="list-style-type: none"> a. CIR:2000/85000/50200; b. CIR:5020/85000/2000; c. CIR:50200/2000/85000; *d. CIR:85000/50200/2000; 	<p>3.2.3 SRI data will be sent from Div Arty to the requesting Bn until:</p> <ul style="list-style-type: none"> a. There is no more information to be sent *b. Deleted by a second SRI input message c. End of each 24 hour period d. Stopped by a delete message <p>3.4.1 Select the statement that correctly indicates how a message from Div Arty that acknowledges receipt of an ATI;SRI request is received at Bn.</p> <ul style="list-style-type: none"> a. Printed on ELP and displayed on RD *b. Printed on ELP and not displayed c. Displayed on RD but not printed on ELP d. Displayed on RD only <p>3.5.1 Output messages from Div Arty as a result of a Bn ATI;SRI message request are received only on the (ELP)?</p>

TAIS No. 2003

MODULE ATI
UNIT SRI

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.2 3. Which of the following is the correct entry to enter the type of target:</p> <p>a. TYPE:PERS / ;</p> <p>b. TYPE:INF /PERS;</p> <p>*c. TYPE:PERS /INF ;</p> <p>d. TYPE:PERSON/INFANT;</p> <p>4. To have the requested information sent to your Bn, the entry on Line 5 would be:</p> <p>a. TO: 1/105/ / / ;</p> <p>b. TO: /1/105/ / ;</p> <p>c. TO: / /1/105/ ;</p> <p>*d. TO: / / / 1/105;</p> <p>3.3 Refer to Figure _____. The switch action to take to transmit your completed ATI;SRI message to Div Arty is? (Enter the letter)</p> <p>()</p> <p>3.4 Refer to Figure _____ which shows a Div Arty acknowledge message as it would appear on the ELP.</p> <p>A What mnemonic indicates that a search of all coordinates should be made?</p> <p>(CDRPT)</p> <p>B The type area specified to be searched is (rectangular/<u>circular</u>) in shape.</p> <p>C The Bn wants information on what type of target? (PERS/INF)</p>	<p>3.5.2 From the following list, match each mnemonic with its definition and function:</p> <p>a. Report value</p> <p>b. Level of training in CBR protection</p> <p>c. Do-not-combine</p> <p>d. Strength of target</p> <p>e. Degree of protection</p> <p>f. Reliability of target report</p> <p>DOP (e)</p> <p>MASKTI (b)</p> <p>REL (f)</p> <p>DNC (c)</p>

TAIS No. 2003

MODULE ATIUNIT SRI

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.5 Refer to Figure ____ which shows a message generated at Div Arty and sent to Bn as a result of an ATI;SRI message.</p> <p>A. The message indicates that this target (will/will not) be combined with other targets.</p> <p>B. PRAND indicates the degree of protection for the target as being:</p> <ol style="list-style-type: none"> 1) Dug in *2) Half prone, half standing 3) Prone 4) Under overhead cover <p>C The reliability of the report is (good)?</p> <p>D The level of training in CBR protection is indicated by the (MASKTI) mnemonic.</p>	

20 August 1975

4-93

System Development Corporation
TM-5544/001/00

Module 3: Ammunition and Fire Unit Function (AFU)

TAIS No. 3001MODULE AFUUNIT INTRO

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 1.0
2. TASK: State the purpose and use of AFU messages
3. CONDITIONS: Given different formatted test items concerning the purpose and use of AFU messages, provide correct response
4. STANDARD: No errors
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
1.1 State the purpose of AFU messages	1.1 None	None	DTM 11-7440- 240-10
1.2 State the use of AFU messages	1.2 None		Chapter 4 Pages 4-159 through 4-176D Chapter 6 Pages 6-7 through 6-9; 6-11 through 6-25; 6-39 through 6-57; 6-75 through 6-99

TAIS No. 3001MODULE AFU
UNIT INTRO

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1 - 1.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
1.1 The student is able to pick from a list the major use of AFU data as being: MAINTAIN AMMUNITION AND STATUS DATA FOR EACH FIRE UNIT.	1.1.1 Pick from a list the definition of the TACFIRE mnemonic AFU as being: AMMUNITION AND FIRE UNIT.
1.2 The student is able to state SUPPORT FIRE PLANNING as being a major use of AFU data.	

FATS No. 3001

MODULE AFU
UNIT INTRO

TEST ITEMS

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1 - 1.2

CRITERION ITEM(S)	ENABLING ITEM(S)
1.1 AFU messages are used to maintain ammunition and status data for each: a. Fire Support Officer b. Fire Direction Sergeant *c. Fire Unit d. Fire Direction Officer	1.1.1 The mnemonic AFU stands for the TACIRE function: *a. Ammunition and Fire Unit b. Ammunition for Use c. Ammunition Fired Up d. Artillery Fire Units
1.2 AFU data is used to support tactical fire control and fire (<u>planning</u>)?	

TAIS No. 3002MODULE AFUUNIT INTRO

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 2.0
2. TASK: Identify the two basic AFU data files and state their function.
3. CONDITIONS: Given different formatted test items concerning the two basic AFU data files, provide correct response.
4. STANDARD: No errors
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
2.1 Identify Fire Unit and Fire Planning files	2.1 None	None	DIM 11-7440- 240-10
2.2 State function of Fire Unit File and Fire Unit Planning File	2.2 Know basic AFU files		apter 4 ages 4-159 hrough -176D apter 6 ages 6-7 through 6-9; -11 through -25; 6-39 rough 6-57; 75 through -99

TAIS No. 3002MODULE AFUUNIT INTRO

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>2.1 The student is able to pick from a list the two basic AFU files as being:</p> <p>a. Fire Unit File</p> <p>b. Fire Unit Planning File</p> <p>2.2 The student is able to match the two basic AFU files with their function as being:</p> <p>Fire Unit File - Provides current status of fire unit</p> <p>Fire Unit Planning File - Provides data for fire planning</p>	

TAIS No. 3002

MODULE AFU

UNIT INTRO

TEST ITEMS

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>2.1 From the following list, pick the two basic files in which AFU data is stored</p> <ul style="list-style-type: none">a. Fire Unit Data File*b. Fire Unit File*c. Fire Unit Planning Filed. Fire Unit Ammunition Filee. Fire Unit Intelligence File <p><u>(b, c)</u></p>	
<p>2.2 Match each AFU basic file with its function</p> <ul style="list-style-type: none">a. Provides current status of fire unitb. Provides historical status of fire unitc. Provides data for weather predictiond. Provides data for fire planning <p>Fire Unit File <u>(a)</u></p> <p>Fire Unit Planning File <u>(d)</u></p>	

TAIS No. 3003

MODULE AFU
UNIT UPDATE

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 3.0
2. TASK: Update the status of an active FU to indicate a new location and verify data entries.
3. CONDITIONS: Given requirement to change location of a FU, select correct message formats and fill in appropriate entries: Given sample AFU;UPDATE output message, interpret message contents. Given different formatted test items concerning the updating of the status of a FU and AFU;UPDATE output message, provide correct response.
4. STANDARD: No Errors
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
3.1 Retrieve FU file.	3.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
3.2 Edit FU file.	3.2 Know operation of ACC component parts.	2. Picture of the AFU directory message.	Chapter 4 Pages 4-159 through 4-176D
3.3 Display AFU update message on RD.	3.3 Know function of ACC switches to control the RD.	3. Picture of an AFU;UPDATE message.	Chapter 6 Pages 6-7 through 6-9;
3.4 Enter changes to FU file.	3.4 Know operation of ACC component parts.	4. Entry data and AFU; UPDATE format.	6-11 through 6-25; 6-39 through 6-57; 6-75 through 6-99
3.5 Verify data for FU.	3.5 Know function of DELETE switch.	5. Additional material to be developed as required.	
3.6 Interpret AFU;UPDATE message printed on ELP.	3.6 Able to decode mnemonics		

TAIS No. 3003MODULE AFU
UNIT UPDATE

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.6

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>3.1 A. Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the AFU;CMD message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches G and 3. 2. Activate FORMAT COMMAND switch. <p>B. As an alternate method, using the above picture/drawing and a picture of the AFU directory message, the student can indicate the switch actions to take to select the AFU;CMD message using the AFU directory message. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches H and 3. 2. Activate FORMAT COMMAND switch. 3. After the AFU directory message is displayed on the CED, move cursor under letter C to select user command message format. 4. Activate the FORMAT SELECT switch. 	<p>3.1.1 Select from a list the message used to retrieve AFU information from the TACFIRE computer for display or edit as being: AFU;CMD</p> <p>3.1.2 State ACTIVE as being a necessary requirement for a FU file when using the AFU;CMD message.</p> <p>3.1.3 State CED or being where the AFU; CMD message format will appear after selection.</p> <p>3.2.1 Pick from a list the error message output when the FU entered in the AFU;CMD message does not match an existing FU as being: FU NOT IN FILE.</p>

TAIS No. 3003MODULE AFUUNIT UPDATE

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.6

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>3.2 When presented with a list of procedures to request a FU file for editing using the AFU;CMD message, but with the procedures in a scrambled order, the student can state the correct order in which these procedures are performed.</p> <p>The correct order is:</p> <ol style="list-style-type: none"> Enter name of FU. Specify EDIT. Take C/ED CMPTR ACTION. <p>3.3 A. The student is able to state the results of using the AFU;CMD message containing a FU name and edit request as being:</p> <ol style="list-style-type: none"> CED is cleared. Message status line is updated. The PRIORITY MESSAGE switch lights. An AFU;UPDATE message is available for display on the RD. <p>B. The student is able to pick from a list the procedures to display the above AFU;UPDATE messages on the RD as being:</p> <ol style="list-style-type: none"> Press PRIORITY MESSAGE switch. 	<p>3.4.1 Select from a list the purpose of the AFU;UPDATE message as being: TO MAINTAIN STATUS DATA ON FUS.</p> <p>3.4.2 Match the following mnemonics with their definition:</p> <ol style="list-style-type: none"> FU - Fire Unit Name MSN - Mission of the fire unit CORD - Fire unit coordinates APPL - Authorized ammunitions WSTR - Weapon strength-Tubes READY - FU available for firing OUTTIL - FU is out of action <p>Note: Explanation of additional mnemonics will be included within the instructional material for student review.</p>

TAIS No. 3003MODULE AFUUNIT UPDATE

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.6

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>2. Press CYCLE MESSAGES switch if other messages are in the receive queue.</p> <p>3.4 A. When presented with a list of procedures and data to update the status of the selected FU, but with the procedures in a scrambled order, the student can state the correct order in which these procedures are performed. The correct order for the steps is:</p> <ol style="list-style-type: none"> 1. Take TRANSFER TO EDIT action. 2. Identify entries for the AFU; UPDATE message. 3. Take C/ED CMPTR ACTION <p>The data are</p> <ul style="list-style-type: none"> • Fire Unit • Coordinates <p>(To be developed)</p> <p>B. The student can select from a list the results of taking computer action on an AFU;UPDATE message as being:</p> <ol style="list-style-type: none"> 1. Data in message replaces information in FU file. 2. Information is automatically transmitted to Div Arty 3. Message is printed on the ELP. 	<p>3.4.3 State ON THE CED as being where editing of the AFU;UPDATE message is accomplished.</p>

TAIS No. 3003MODULE AFUUNIT UPDATE

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.6

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>3.5 When presented with a list of procedures to verify data entered into an AFU;UPDATE message, but with the steps in a scrambled order, the student can state the correct order in which these procedures are performed. The correct order is:</p> <ul style="list-style-type: none">a. Select and display AFU;CMD messageb. Specify FU name and EDIT.c. Take C/ED CMPTR ACTION.d. Use PRIORITY MESSAGE switch and CYCLE MESSAGES switch to display the AFU;UPDATE message on the RD.e. Verify entries.f. Take DELETE action to remove AFU;UPDATE from RD. <p>3.6 Given an AFU;UPDATE message as presented on the ELP, the student is able to interpret the contents of the message.</p> <p>(To be developed)</p>	

TATS No. 3003

MODULE AFU
UNIT UPDATE

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.6

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.1 A. Refer to Figure _____. Assume one of the fire units in your Bn has relocated and the new location coordinates for the fire unit must be entered into the TACFIRE computer. To do this you must use the user command to retrieve the file from the computer for the fire unit. From the list of steps given below, first <u>select</u> the procedural steps required and then <u>place</u> them in the correct order.</p> <ol style="list-style-type: none"> *1. Depress switches G and 3. 2. Activate REPLACE switch. *3. Activate FORMAT COMMAND switch. 4. Press PRIORITY MESSAGE switch. 5. Depress switches G and 4. <p>(1, 3)</p> <p>B. Refer to Figures _____ and _____. Put in the correct order the procedural steps to select the AFU user command message using the AFU directory message.</p> <ol style="list-style-type: none"> 1. Activate the FORMAT SELECT switch. 2. Depress switches H and 3. 3. After the AFU directory message is displayed in the CED, move cursor under letter C to select user command message format. 	<p>3.1.1 To retrieve AFU information from the TACFIRE computer, which of the messages would you use:</p> <ol style="list-style-type: none"> a. AFU;MASK b. AFU;MASK BAMOUP c. AFU;MV *d. AFU;CMD <p>3.1.2 In order to use the AFU;CMD the FU file must be (Active)?</p> <p>3.1.3 The AFU;CMD message will appear on the (RD/CED) after being selected.</p> <p>3.2.1 When the FU entered in the AFU;CMD message does not exist, the TACFIRE computer will indicate:</p> <ol style="list-style-type: none"> a. FU DELETED b. RE-ENTER FU NAME *c. FU NOT IN FILE d. FU DOES NOT EXIST

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.6

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.1 4. Activate the FORMAT COMMAND switch (2, 4, 3, 1)</p> <p>3.2 Put in the correct order the procedures to request a FU file for editing using the AFU;COMD message.</p> <p>a. Specify EDIT.</p> <p>b. Take C/ED CMPTR ACTION.</p> <p>c. Enter name of FU. (c, a, b) or (a, c, b)</p> <p>3.3 A. Pick the statements that indicate the results of taking computer action on an AFU;COMD message specifying a FU and EDIT request.</p> <p>1. CYCLE MESSAGES switch lights.</p> <p>*2. CED is cleared.</p> <p>*3. An AFU;UPDATE message is available for display on the RD.</p> <p>4. The XMTG light goes on.</p> <p>*5. Message status line is updated.</p> <p>*6. The PRIORITY MESSAGE switch lights. (2, 3, 5, 6)</p>	<p>3.4.1 The AFU;UPDATE message is used to:</p> <p>a. Maintain personnel data for FUs.</p> <p>*b. Maintain status data on FUs.</p> <p>c. Update ammunition on hand only.</p> <p>d. Update ration requirements for FUs</p> <p>3.4.2 From the following list match each mnemonic with its definition and function.</p> <p>a. FU is out of action.</p> <p>b. Authorized ammunition.</p> <p>c. Fire Unit coordinates.</p> <p>d. Mission of the fire unit.</p> <p>e. FU is out of action.</p> <p>f. Weapon strength-tubes.</p> <p>APPL (b)</p> <p>OUTTIL (e)</p> <p>CORD (c)</p> <p>WSTR (f)</p> <p>3.4.3 To edit the AFU;UPDATE message, it must be displayed on the (CED)?</p>

TAIS No. 3003

MODULE AFU
UNIT UPDATE

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.6

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.3 B. 1) After taking computer action, to display the above AFU; UPDATE message on the RD, the first action to take is to press the:</p> <ul style="list-style-type: none"> *a) PRIORITY MESSAGE switch b) CYCLE MESSAGES switch c) RD XMIT switch d) PAGE switch <p>2) If the AFU;UPDATE message does not display after pressing the PRIORITY MESSAGE switch, you must use the (CYCLE MESSAGES/PAGE) switch to step through the RD message queue.</p> <p>3.4 A. You must update the location of a fire unit in your Bn. You have already used the AFU;CMD message to retrieve the fire unit file and have displayed the resulting AFU;UPDATE format message (Figure A) on the RD. Listed below in a scrambled order are the steps required to update the status of the selected FU. Place the steps in the correct order and answer the questions concerning the entry of data into the AFU;UPDATE message format (Sample data and questions) Data to be included in Figure B.</p> <ul style="list-style-type: none"> • Btry A, 1st Bn, 4th Regiment • Coordinates <p>06720-95380</p>	

TAIS No. 3003

MODULE AFU
UNIT UPDATE

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.6

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.4 • Alt 622</p> <p>1) Put the following procedures in the correct order</p> <p> a) Take C/ED CMPTR ACTION</p> <p> b) Take TRANSFER TO EDIT</p> <p> c) Make entries in AFU; UPDATE message</p> <p> <u>(b, c, a)</u></p> <p>Refer to Figures A and B for the following questions.</p> <p>2) Which of the following is the correct entry to specify the Fire unit in the AFU;UPDATE message.</p> <p> a) FU: A/1/40/ / ;</p> <p> b) FU: /A/1/40/ ;</p> <p> *c) FU: / /A/ 1/40;</p> <p> d) FU: A/ / /1/40;</p> <p>3) Which of the following is the correct entry to enter the new location coordinates for Btry A, 1/40.</p> <p> a) CORD: 622 /06720/95380;</p> <p> *b) CORD: 06720/ 95380/ 622;</p> <p> c) CORD: 95380/06720/622;</p>	

TAIS No. 3003

MODULE AFU
UNIT UPDATE

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.6

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.4 B. Pick the statements that indicate the results of taking computer action on an AFU;UPDATE message to change location of a FU.</p> <ul style="list-style-type: none"> *1. Data in message replaces information in FU file. 2. Information is displayed on RD. 3. DPM is activated. *4. Information is automatically transmitted to Div Arty. *5. Message is printed on ELP. <p><u>(1, 4, 5)</u></p> <p>3.5 You have updated the location of a fire unit in your Bn and wish to verify the data that was entered in the AFU;UPDATE message, using the AFU;CMD message to retrieve the fire unit file. Listed below in a scrambled order are the steps to take to verify the content of the AFU;UPDATE message. Place the steps in the correct order.</p> <ul style="list-style-type: none"> a. Specify FU name and EDIT. b. Verify entries. c. Take DELETE action to remove the AFU;UPDATE message from the RD. d. Select and display the AFU; CMD message. 	

TAIS No. 3003MODULE AFU
UNIT UPDATE

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.6

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.5 e. Use PRIORITY MESSAGE switch and CYCLE MESSAGES switch to display the AFU;UPDATE message on the RD.</p> <p>f. Take C/ED CMPTR ACTION.</p> <ol style="list-style-type: none"> 1. If the first step is d. Select and display the AFU; COMD message, Step 2 is <u>(a)</u>? 2. If the third step (Step 3) is f.Take C/ED CMPTR ACTION, the next step (Step 4) is <u>(e)</u>? 3. The last step (Step 6) in this sequence is <u>(c)</u>? <p>3.6 Refer to Figure ____ which shows an AFU;UPDATE message for a specific FU.</p> <ol style="list-style-type: none"> 1. The name of the FU is Btry <u>(A)</u>, 2 <u>(Bn)</u>, 33 regiment. 2. The mission of the FU is to provide (direct/<u>general</u>/reinforcing) support. 3. The weapon strength as indicated by the mnemonic (<u>WSTR</u>) is 6 tubes. 4. The FU (<u>is</u>/is not) available for firing. 	

TAIS No. 3004MODULE AFU
UNIT BAMOUN

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 4.0
2. TASK: Update the ammunition inventory for an active FU to reflect ammunition received and verify data entries.
3. CONDITIONS: Given requirements to update current ammunition status of a FU to reflect ammunition received, select correct message format and fill in appropriate entries. Given the requirement to print and interpret AFU 2204 FU AMMO SUMMARY output message, select correct message format to print output message and interpret contents. Given different formatted test items concerning the updating of the ammunition status for a FU and AFU 2204 FU AMMO SUMMARY output message, provide correct response.
4. STANDARD: No errors
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
4.1 Select and display AFU;BAMOUN message:	4.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
4.2 Identify entries for ammunition data.	4.2 Know operation of ACC component parts.	2. Entry data and AFU; BAMOUN format.	Chapter 4 Pages 4-159 through 4-176D.
4.3 Identify results of computer action.	4.3 None.		
4.4 Print AFU 2204 FU AMMO SUMMARY output message.	4.4 Know how to select and display AFU user command message.	3. Picture of AFU 2204 FU AMMO SUMMARY output message.	Chapter 6 Pages 6-7 through 6-9; 6-11 through 6-25; 6-39 through 6-57; 6-75 through 6-99.
4.5 Interpret AFU 2204 FU AMMO SUMMARY contents.	4.5 Able to decode mnemonics.	4. Additional material to be developed as required.	

TAIS No. 3004

MODULE AFU

UNIT BAMOUP

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>4.1 Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the AFU;BAMOUP message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <p>a. Depress switches B and 3.</p> <p>b. Activate FORMAT COMMAND switch.</p>	<p>4.1.1 Pick from a list the purpose of the AFU;BAMOUP message as being: MAINTAIN AMMUNITION DATA FOR A FU.</p> <p>4.2.1 State ON THE CED as being where the AFU;BAMOUP will display after being selected.</p> <p>4.2.2 Match the following mnemonics with their definition.</p> <p>a. FU - Fire Unit</p> <p>b. AMOR - Ammunition received</p> <p>c. PROJA - Ammunition characteristics</p> <p>d. PLOT - Powder characteristics</p> <p>Note: Explanation of additional mnemonics will be included within the instructional material for student review.</p>
<p>4.2 Given information to update the ammunition status of a FU to reflect ammunition received, the student will identify the data to simulate the completion of the AFU;BAMOUP input message. Data entries will include:</p> <ul style="list-style-type: none"> • Fire Unit • Ammunition received • Ammunition characteristics • Powder characteristics <p>(Data to be specified)</p>	<p>4.2.3 Pick from a list the entry that is <u>always</u> required in the AFU; BAMOUP message as being: FU.</p> <p>4.2.4 Pick from a list the error message output when the ammunition input in the AFU;BAMOUP does not match the existing ammunition in the FU file as being: AMMO NOT IN FILE.</p>
<p>4.3 The student can select from a list the results of taking computer action on an AFU;BAMOUP message as being:</p> <p>1. FU file is updated.</p> <p>2. AFU;BAMOUP message is printed on the ELP.</p>	<p>4.3.1 Select from a list the switch action to take to process the completed AFU;BAMOUP message as being: C/ED CMPTR ACTION.</p>

TAIS No. 3004

MODULE AFU

UNIT BAMOUP

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>4.3 3. Information is transmitted to Div Arty.</p> <p>4.4 When presented with a list of procedures to print the AFU 2204 FU AMMO SUMMARY output message, but with the steps in a scrambled order, the student can state the correct order in which these procedures are performed. The correct order is:</p> <p>a. Select and display the AFU;CMD message.</p> <p>b. Enter PRINT and SUMS.</p> <p>c. Take C/ED CMPTR ACTION.</p> <p>4.5 Given an AFU 2204 FU AMMO SUMMARY output message as printed on the ELP, the student is able to interpret the contents of the message.</p> <p>(To be developed)</p>	<p>4.5.1 Pick from a list the number of fire units that are included in the AFU 2204 AMMO SUMMARY output message as being: ALL ACTIVE FUs.</p> <p>4.5.2 Match the following mnemonics with their definitions:</p> <p>a. MSN - Mission of fire unit.</p> <p>b. ASRLVL - Maximum number of rounds a unit may fire.</p> <p>c. EXPEND - Total rounds expended.</p> <p>d. CATEGORY - Shell or fuse.</p> <p>e. AMOL - Critical ammo level.</p> <p>Note: Explanation of additional mnemonics will be included within the instructional material for student review.</p>

TAIS No. 3004

MODULE AFUUNIT BAMOUP

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.1 Refer to Figure _____. Assume one of the fire units in your Bn has received additional supplies of ammunition which must be added to their ammunition inventory. As a first step you need to select the message format so that you can enter this information and update the ammunition status for the FU. From the list of steps given below, first <u>select</u> the procedural steps required and then <u>place</u> them in the correct order.</p> <p>a. Activate FORMAT SELECT switch.</p> <p>b. Activate FORMAT COMMAND switch.</p> <p>c. Activate REPLACE switch.</p> <p>d. Depress switches G and 3.</p> <p>e. Depress switches B and 3.</p> <p><u>(e, b)</u></p> <p>4.2 One of your FUs has received a supply of ammunition to replace previously expended ammunition. You have already selected the AFU; BAMOUP format message (Figure C) and must now enter the information to update the ammunition inventory for the FU. Answer the following questions concerning the entry of data into the AFU; BAMOUP message format.</p> <p>(Sample data and questions)</p> <p>Data to be included in Figure D.</p> <p>• Btry 8, 1st Bn, 41st Regiment.</p>	<p>4.1.1 The AFU;BAMOUP message is used to:</p> <p>a. Maintain data on backup units.</p> <p>b. Assist Bn in maintaining Battery availability files.</p> <p>*c. Maintain ammunition data for a FU.</p> <p>d. Set amount of ammunition that can be expended by each Battery.</p> <p>4.2.1 After being selected by the appropriate switch actions, the AFU; BAMOUP message format will appear on the (RD/CED)?</p> <p>4.2.2 From the following list, match each mnemonic with its definition and function.</p> <p>a. Powder characteristics</p> <p>b. Fire Unit</p> <p>c. Ammunition received</p> <p>d. Ammunition characteristics</p> <p>FU <u>(b)</u></p> <p>PROJB <u>(d)</u></p> <p>PLOT <u>(a)</u></p> <p>PROJA <u>(d)</u></p> <p>AMOR <u>(c)</u></p>

IAIS No. 3004

MODUL: AFU
UNIT BAMOUP

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.2 ● Accounting procedure is for ammunition received.</p> <p>● Ammunition characteristics are:</p> <p>Categories HEAL, HEC1</p> <p>Lot designator H , F</p> <p>Weight 33.0, 32.0</p> <p>Quantity 600 , 400</p> <p>Power characteristics</p> <p>Model M67</p> <p>Lot Designation X</p> <p>Quantity 100</p> <p>Refer to Figures C and D for the following questions:</p> <p>1. Which of the following is the correct entry to specify the fire unit.</p> <p>a. FU: /B/1/41/ ;</p> <p>b. FU: / /1/b /41 ;</p> <p>c. FU: / /41/1/B ;</p> <p>*d. FU: / /B/ 1/41 ;</p> <p>2. Which of the following is the correct entry that indicates that the data base is to be updated to reflect ammo received.</p> <p>a. AMOR: ; AMOE: ; AMOH:X;</p> <p>b. AMOR: ; AMOE:X; AMOH: ;</p>	<p>4.2.3 What item is <u>always</u> required in the AFU;BAMOUP message?</p> <p>a. AMOR</p> <p>b. PLOT</p> <p>c. PROJA</p> <p>*d. FU</p> <p>4.2.4 If the ammo entered in the AFU;BAMOUP message does not match the existing ammo for the FU specified, the computer will indicate:</p> <p>*a. AMMO NOT IN FILE</p> <p>b. PREVIOUS AMMO DELETED</p> <p>c. WRONG TRY AGAIN</p> <p>d. INVALID AFU MESSAGE</p> <p>4.3.1 The switch action to take to process the completed AFU;BAMOUP message is:</p> <p>a. RD CMPTR ACTION</p> <p>*b. C/ED CMPTR ACTION</p> <p>c. REPLACE</p> <p>d. XMIT</p>

IAIS No. 3004

MODULF AFU
UNIT BAMOUP

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.2 *c. AMOR:X; AMOE: ; AMOH: ; d. AMOR:X; AMOE: ; AMOH:X;</p> <p>3. Which of the following is the correct entry for entering the ammunition characteristics of the ammo received.</p> <p>*a. PROJA:HEA1/H/33 .0/600, HEC1/F/32 .0/400, b. PROJB:HEC1/H/32 .0/400, HEA1/F/33 .0/600, c. PROJA:33.0/H/HEA1/600, 32.0/F/HEC1/400, d. PROJA:HEA1/ / /600, HEC1/ / /400,</p> <p>4. Which of the following is the correct entry in line 4 of the AFU;BAMOUP message for the powder characteristics</p> <p>a. PLOT:100/H/M67, *b. PLOT:M67/H/100, c. PLOT:M67/Z/100, d. PLOT:100/ /M67,</p> <p>4.3 Assume you have taken computer action on an AFU;BAMOUP message. Answer the following questions concerning the results of this action.</p>	<p>4.5.1 The number of FUs in the AFU 2204 AMMO SUMMARY output message includes:</p> <p>a. Only the FU specified.</p> <p>*b. All active FUs.</p> <p>c. Only FUs that have received ammo during previous 30 day period.</p> <p>d. Only FUs whose supply includes nuclear as well as conventional ammo.</p> <p>4.5.2 From the following list, match each mnemonic with its definition and function.</p> <p>a. Shell or fuze</p> <p>b. Maximum number of rounds a unit can fire.</p> <p>c. Total rounds expended.</p> <p>d. Mission of fire unit.</p> <p>e. Critical ammo level.</p> <p>CATEGORY (a)</p> <p>AMOL (e)</p> <p>ASRLVL (b)</p>

TATS No. 3004

MODULE AFU
UNIT BAMOUP

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.3 1. The FU file (<u>is</u>/is not) updated.</p> <p>2. A copy of the AFU;BAMOUP (<u>is</u>/is not) printed on the ELP.</p> <p>3. The information is automatically transmitted to (Div Arty)?</p> <p>4.4 Put in the correct order the steps to print the AFU 2204 AMMO SUMMARY output message</p> <p>a. Enter PRINT and SUMS.</p> <p>b. Take C/ED CMPTR ACTION.</p> <p>c. Select and display AFU; COMD message.</p> <p>(c, a, b)</p> <p>4.5 Refer to Figure _____ which shows an AFU 2204 AMMO SUMMARY output message.</p> <p>1. The number of FUs is <u>(3)</u>.</p> <p>2. The mission of Btry B is <u>(DS/GS/R)</u>?</p> <p>3. Btry A has expended <u>(2135)</u> rounds of ammo.</p> <p>4. The greatest number of shells Btry C has on hand are <u>(HEAL)</u>?</p>	

TAIS No. 3005MODULE AFUUNIT AMOL/ASR

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 5.0
2. TASK: Modify the critical ammo level for a specific Fire Unit, set the available supply rate for all active units containing a specific organic weapon and verify data entries.
3. CONDITIONS: Given requirement to modify the critical ammo level for a FU, select correct message format and fill in appropriate entries. Given requirement to set the available supply rate for a specific weapon, select correct message format and fill in appropriate entries. Given different formatted test items concerning the modification of the critical ammo level for a FU, setting the available daily supply rate for a FU and AFU 2204 FU AMMO SUMMARY output message, provide correct response.
4. STANDARD: No errors
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
5.1 Select and display AFU;AMOL message.	5.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
5.2 Identify entries for Ammo levels.	5.2 Know operation of ACC component parts.	2. Entry data and AFU;AMOL format.	Chapter 4 Pages 4-159 through 4-176D
5.3 Identify results of computer action.	5.3 None	3. Entry data and AFU;ASR format.	Chapter 6 Pages 6-7 through 6-9; 6-11 through 6-25; 6-39 through 6-57; 6-75 through 6-99.
5.4 Select and display AFU;ASR message.	5.4 Know operation of ACC component parts.	4. Picture of AFU 2204 FU AMMO SUMMARY output message.	
5.5 Identify entries for available supply rates.	5.5 Know operation of ACC component parts	5. Additional material to be developed as required.	
5.6 Identify results of computer action.	5.6 Know operation of ACC component parts.		
5.7 Print AFU 2204 FU AMMO SUMMARY output message.	5.7 Know how to select and display AFU user command message.		
5.8 Interpret AFU 2204 FU AMMO SUMMARY contents.	5.8 Able to decode mnemonics.		

TAIS No. 3005MODULE AFU
UNIT AMOL/ASR

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.8

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>5.1 Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the AFU;AMOL message. The switch matrix is referenced by letters for rows and number for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <p>A. Depress switches A and 4.</p> <p>B. Activate FORMAT COMMAND switch.</p>	<p>5.1.1 Pick from a list the purpose of the AFU;AMOL message as being: SET CRITICAL AMMO LEVEL FOR A FU.</p> <p>5.2.1 Match the following mnemonics with their definition.</p> <p>a. SHELS - Shell Description</p> <p>b. FUZES - Fuze Description</p> <p>Note: Explanation of additional mnemonics will be included within the instructional material for student review.</p>
<p>5.2 Given information to change the critical Ammo level of a FU, the student identifies the data to simulate the completion of the AFU;AMOL input message. Data entries will include:</p> <ul style="list-style-type: none"> • Fire Unit • Shell Description • Fuze Description (Data to be specified) 	<p>5.2.2 Pick from a list the default value for the critical Ammo level as being: 000.</p> <p>5.2.3 Pick from a list the action that occurs when the Ammo supply for a shell or fuze category drops below the critical level as being: A WARNING MESSAGE IS OUTPUT ON THE ELP IN THE FORM PLAN:BBBBBB; FU:B/B/B/BB/BBB;CAT:BBBB;AMOL VIOLATED.</p>
<p>5.3 The student can select from a list the results of taking computer action on an AFU;AMOL message as being.</p> <ol style="list-style-type: none"> 1. FU file is updated. 2. AFU;AMOL message is printed on the ELP. 	<p>5.3.1 State the switch action to take to process the completed AFU;AMOL message as being: C/ED CMPTR ACTION.</p> <p>5.4.1 Pick from a list the purpose of the AFU;ASR message as being: TO ESTABLISH THE TOTAL NUMBER OF ROUNDS A FU IS AUTHORIZED TO USE ON A DAILY BASIS.</p>

TAIS No. 3005MODULE AFUUNIT AMOL/ASR

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.8

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>5.4 Given a picture/drawing of the ACC switch panel assembly, identify the switch action that can be used to select and display the AFU;ASR message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches C and 3. 2. Activate the FORMAT COMMAND switch. 	<p>5.5.1 Pick from a list the function of the mnemonic ASRLVL as being: SPECIFIES MAXIMUM NUMBER OF ROUNDS A FU IS AUTHORIZED PER DAY.</p> <p>5.5.2 Pick from a list the default value of the available supply rate as being: 9999.</p> <p>5.5.3 Select from a list the action that occurs when a FU expends more rounds than the daily authorization as being: A WARNING MESSAGE IS OUTPUT ON THE ELP.</p>
<p>5.5 Given information to set the maximum number of daily rounds a FU is authorized to fire the student will identify the data to simulate the completion of the AFU:ASR input message. Data entries will include:</p> <ul style="list-style-type: none"> • Fire Unit or Weapon Type • Supply Rate (Data to be specified) 	
<p>5.6 The student can select from a list the results of taking computer action on an AFU;ASR message as being:</p> <ol style="list-style-type: none"> 1. Specific FU file is updated or all active FU files for a specific weapon type are updated. 2. AFU;ASR message is printed on the ELP. 	

TAIS No. 3005

MODULE AFU
UNIT AMOL/ASR

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.8

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>5.7 When presented with a list of procedures to print the AFU 2204 FU AMMO SUMMARY output message, but with the steps in a scrambled order, the student can state the correct order in which these procedures are performed. The correct order is:</p> <ul style="list-style-type: none">a. Select and display the AFU;CMD message.b. Enter PRINT and SUMS.c. Take C/ED CMPTR ACTION. <p>5.8 Given an AFU 2204 FU AMMO SUMMARY output message as printed on the ELP, the student is able to interpret the contents of the message.</p> <p>(To be developed)</p>	

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.1 Refer to Figure ____.</p> <p>Due to tactical considerations, the critical Ammo level for one of the FUs is your Bn has been changed. As a first step, you need to select the message format so this change for the FU can be entered into the TACFIRE computer. From the list of steps below, just <u>select</u> the procedural steps required and then <u>place</u> them in the correct order.</p> <ol style="list-style-type: none"> Depress switches C and 3. *b. Depress switches A and 4. Activate REPLACE switch. *d. Activate FORMAT COMMAND switch. Activate FORMAT SELECT switch. <p>(b,d)</p>	<p>5.1.1 The purpose of the AFU;AMOL message is to:</p> <ol style="list-style-type: none"> Set the amount of Ammo on hand for a FU. *b. Set the critical Ammo level for a FU. Set the type of shells/fuzes a FU may have on its inventory. Set the correct shell/fuze combination for each FU. <p>5.2.1 To specify the critical level for fuze categories, you enter the data following the mnemonic (SHELLS/FUZES)?</p> <p>5.2.2 The default value when the critical level for shell or fuze categories is not specified in the AFU;AMOL message is:</p> <ol style="list-style-type: none"> 1000 500 250 *d. 000
<p>5.2 Assume that due to tactical considerations, the FDO has decided to change the critical Ammo level for specific shell and fuze categories for a FU. You have already selected the AFU;AMOL format message (Figure E) and must now make the entries to set the critical Ammo level for the required shell and fuze categories. Answer the following questions concerning the entry of data into the AFU;AMOL message format. (Sample data and questions).</p>	

TAIS No. 3005MODULE AFUUNIT AMOL/ASR

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.2 Data to be included in Figure F:</p> <ul style="list-style-type: none"> • Btry C, 1st Bn, 4th Regiment • Shell Description <ul style="list-style-type: none"> Category - HEAL, HEC1, SMA1 Level - 300, 300, 50 • Fuze Description <ul style="list-style-type: none"> Category - PDA, TIA, TIB Level - 150, 75, 300 <p>Refer to Figures E and F and answer the following questions.</p> <p>1. The correct entry for specifying the fire unit is:</p> <ul style="list-style-type: none"> *a. FU: / /C/ 1/40; b. FU: /C/1 / /40; c. FU: C/1/40/ / ; d. FU: / / 1/C/40; <p>2. Which of the following is the correct entry to enter the shell data?</p> <ul style="list-style-type: none"> a. SHELS: 300 /HEC1,300/HEC1, 50/SMA1, b. SHELS: HEAL/300,HEC1/300, 50/SMA1, *c. SHELS: HEAL/300,HEC1/300, SMA1/50, d. SHELS: HEAL/PDA,HEC1/TIA, SMA1/TIB, 	<p>5.2.3</p> <p>A. What happens when a shell or fuze category drops below the critical level?</p> <ol style="list-style-type: none"> 1. The FU submits a requisition for more Ammo. 2. Check fire is implemented. *3. A warning message is output on the ELP. 4. The FU informs the FDO of the problem. <p>B. Pick the warning message that would be output if the shell category HEAL in Btry B, 2nd Bn, 18th Regiment, dropped below the critical level.</p> <ol style="list-style-type: none"> *1. AFU:2208 PLAN: FU: / /B/2/18; CAT:HEAL; AMOL VIOLATED 2. AFU:2208 PLAN: FU: / /2/B/18; CAT:HEAL; AMOL VIOLATED 3. AFU:2208 PLAN: FU: / /B/2/18; SHEL:HEAL; CRITICAL LEVEL MET 4. AFU:2208 PLAN: FU: / /2/B/18; CHECK FIRE ON CAT;HEAL, AMOL VIOLATED

TAIS No. 3005MODULE AFUUNIT AMOL/ASR

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.2 3. Which of the following is the correct entry to enter the information concerning fuzes.</p> <p>a. FUZES: PDA/75,TIA /15, TIB/300,</p> <p>b. FUZES: 150/PDA,75 /TIA, 300/TIB,</p> <p>c. FUZES: PDA/TIA,TIB/150 75/300</p> <p>*d. FUZES: PDA/150, TIA/75 , TIB /300,</p>	<p>5.3.1 What switch action do you take to have the computer process the completed AFU;AMOL message? <u>(C/ED CMPTR ACTION)</u></p> <p>5.4.1 The purpose of the AFU;ASR message is to establish the total number of records a FU may fire:</p> <p>a. On a monthly basis.</p> <p>b. On a weekly basis.</p> <p>*c. On a daily basis.</p> <p>d. During combat operations.</p>
<p>5.3 Taking computer action on the completed AFU;AMOL message causes the FU file to be updated and the AFU;AMOL message to be:</p> <p>*a. Printed on the ELP.</p> <p>b. Transmitted to the FU</p> <p>c. Transmitted to Div Arty</p> <p>d. Displayed on the DPM</p>	<p>5.5.1 To specify the daily maximum number of rounds a FU may fire, you enter a number following the <u>(ASRLVL)</u> mnemonic.</p> <p>5.5.2 If a value is not entered following the ASRLVL mnemonic, the maximum number of rounds a FU can fire daily is established (default values) as:</p> <p>*a. 9999</p> <p>b. 4999</p> <p>c. 0999</p> <p>d. 0000</p>

TAIS No. 3005

MODULE AFU
UNIT AMOL/ASR

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.4 Refer to Figure _____. Enemy action has temporarily disrupted your supply lines and the maximum number of rounds that a FU may fire on a daily basis must be reset. As a first step, you need to select the message format so the change can be entered into the TACFIRE Computer.</p> <p>A. The switches on the switch action panel you would depress to select the message format you need are (C) and (3).</p> <p>B. To display this input message you would activate the (FORMAT COMMAND) switch.</p> <p>5.5 Assume that enemy action has temporarily disrupted your supply line and a decision has been made to reset the maximum number of daily records a FU is authorized to fire. You have already selected the AFU; ASR format message (Figure G) and must now make the entries. Answer the following questions concerning the entry of data into the AFU;ASR message format. (Sample data and questions)</p> <p>Data to be included in Figure H.</p> <ul style="list-style-type: none"> • Weapon Type - 105mm • Supply Rate - 900 	<p>5.5.3 If a FU exceeds the maximum number of rounds it is authorized to fire daily, the Bn TACFIRE computer will:</p> <ul style="list-style-type: none"> a. Send a message to Div Arty. b. Display a warning message on the RD. c. Request additional Ammo from S-4. *d. Output a warning message on the ELP.

TAIS No. 3005MODULE AFUUNIT AMOL/ASR

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.5</p> <p>Refer to Figures G and H for the following questions:</p> <p>1. Which mnemonic would you enter the weapon type after?</p> <p>a. FU: / / / /105mm;</p> <p>*b. WPN: 105mm;</p> <p>c. PLAN: 105mm;</p> <p>d. ASRLVL: 105mm;</p> <p>2. To specify the supply rate you would make which one of the following entries:</p> <p>a. WPN:940;</p> <p>b. PLAN:900;</p> <p>*c. ASRLVL:900;</p> <p>d. EXPEND:900;</p>	

TATS No. 3005MODULE AFUUNIT AMOL/ASR

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.8

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.6 Assume you have taken computer action on an AFU;ASR message. Pick the statements that indicate the results of this action.</p> <p>a. The AFU;ASR message is displayed on the RD.</p> <p>*b. FU files are updated.</p> <p>c. Ammo inventory for each weapon is reduced.</p> <p>*d. The AFU;ASR message is printed on the ELP.</p> <p><u>(b,d)</u></p> <p>5.7 Put in the correct order the steps to print the AFU 2204 AMMO SUMMARY output message.</p> <p>a. Enter PRINT and SUMS</p> <p>b. Select and display the AFU;CMD message.</p> <p>c. Take C/ED CMPTR ACTION</p> <p><u>(b,a,c)</u></p> <p>5.8 Refer to Figure __, which shows an AFU 2204 AMMO SUMMARY output message.</p> <p>1. The maximum number of rounds per day for Btry A is <u>(900)</u>.</p> <p>2. The Weapon Type for Btry B is <u>(105mm)</u>.</p> <p>3. The number of expended rounds for Btry C is <u>(350)</u>.</p>	

TAIS No. 3006MODULE AFU
UNIT MV

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 6.0
2. TASK: Enter current muzzle velocities for a FU and verify data entries.
3. CONDITIONS: Given requirement to enter current muzzle velocities for a FU, select correct message format and fill in appropriate entries. Given different formatted test items concerning the updating of current muzzle velocities for a FU and verification of entries, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
6.1 Select and display AFU;MV message	6.1 Know operation of ACC component parts	1. Picture/drawing of ACC	DTM 11-7440-240-10
6.2 Identify entries for muzzle velocity data	6.2 Know operation of ACC component parts	2. Picture of AFU directory message	Chapter 4 Pages 4-159 through 4-176D
6.3 Identify results of computer action	6.3 None	3. Additional material to be developed as required	Chapter 6 Pages 6-7 through 6-9; 6-11 through 6-25; 6-39 through 6-57; 6-75 through 6-99.
6.4 Verify data entries	6.4 Know function of DELETE switch		

TAIS No. 3006MODULE AFUUNIT MV

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>6.1 Given a picture/drawing of the ACC switch panel assembly and a picture of the AFU directory message, identify the switch actions and entries to make to select and display the AFU;MV message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the AFU directory message format and then identify the actions to take to select and display the desired AFU message.</p> <p>The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches H and 3. 2. Activate FORMAT COMMAND switch. 3. After the AFU directory message is displayed on the CED, move cursor under the first letter M. 4. Activate the FORMAT SELECT switch. 	<p>6.1.1 Pick from a list the purpose of the AFU;MV message as being: TO INPUT MUZZLE VELOC</p> <p>6.2.1 State STANDARD MUZZLE VELOCITY is used by the TACFIRE Computer when specific muzzle velocities are not available for ballistic computations.</p>

TAIS No. 3006MODULE AFUUNIT MV

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>6.2 Given information representing muzzle velocities for a FU the student will identify the data to simulate the completion of the AFU;MV input message. Data entries will include:</p> <ul style="list-style-type: none">• Fire Unit• Muzzle Velocity Specification <p>(Data to be specified)</p> <p>6.3 The student can select from a list the results of taking computer action on an AFU;MV message as being:</p> <ol style="list-style-type: none">1. FU file is updated2. AFU;MV message is printed on the ELP	

TAIS No. 3006MODULE AFUUNIT MV

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>6.4 When presented with a list of procedures to verify data entered into an AFU;MV message, but with the steps in a scrambled order, the student can state the correct order in which those procedures are performed. The correct order is:</p> <ul style="list-style-type: none">a. Select and display AFU;CMD message.b. Specify FU name and EDITc. Take C/ED CMPTR ACTIONd. Use PRIORITY MESSAGE switch and CYCLE MESSAGES switch to display the AFU;MV message on the RDe. Verify entriesf. Take DELETE action to remove the AFU;MV message from the RD	

TEST ITEMS

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>6.1 Refer to Figures ____ and ____ . As a result of extensive firing of weapons in one of the FUs in your Bn, current muzzle velocity values must be entered into the FU file. Put in the correct order the procedural steps to select the AFU message format to enter current muzzle velocities for a FU.</p> <p>a. After the AFU directory message is displayed on the CED, move the cursor under the first letter M.</p> <p>b. Activate the FORMAT COMMAND switch.</p> <p>c. Activate the FORMAT SELECT switch.</p> <p>d. Depress switches A and 3.</p> <p><u>(d,b,a,c)</u></p> <p>6.2 Due to extensive firing, the muzzle velocities for the weapons of one of the FUs in your Bn needs to be updated. You have already selected the AFU;MV format message (Figure I) and must now enter the current muzzle velocities. Answer the following questions concerning the entry of data into the AFU;MV message format.</p> <p>(Sample data and questions)</p>	<p>6.1.1 The purpose of the AFU;MV message is to:</p> <p>a. Input maintenance requirements.</p> <p>b. Input munition allotments.</p> <p>c. Input recommended muzzle velocities.</p> <p>*d. Input specific muzzle velocities.</p> <p>6.2.1 When specific muzzle velocities are not available for ballistic computation, the TACFIRE computer uses:</p> <p>*a. Standard muzzle velocities.</p> <p>b. Old muzzle velocities.</p> <p>c. Extrapolated muzzle velocities.</p> <p>d. Muzzle velocities are ignored in ballistic computations.</p>

TAIS No. 3006

4-133

MODULE AFU
UNIT MV

TEST ITEMS

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>6.2 Data to be included in Figure J.</p> <ul style="list-style-type: none">• Btry A, 1st Bn, 40th Regiment• Muzzle velocity specification. <p>Muzzle velocity - (to be determined)</p> <p>Shell Category - HEA1</p> <p>Shell and Powder Lot - X</p> <p>Charge Number - 1 through 5</p> <p>Refer to Figures I and J for the following questions.</p> <p>1. Which of the following is the correct entry for specifying the fire unit in the AFU;MV message.</p> <p>A. FU: A/1/40/ / ;</p> <p>B. FU: /A/1 /40/ ;</p> <p>*C. FU: / /A/ 1/ 40;</p> <p>D. FU: / /40/1 /A ;</p>	

TAIS No. 3006MODULE AFUUNIT MV

TEST ITEMS

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>6.2 2. Which of the following is the correct entry to specify the muzzle velocity for the fifth charge number.</p> <p>*a. MV2:XXX.X/HEAL/X/X/5,</p> <p>b. MV1:XXX.X/HEAL/X/X/5,</p> <p>c. MV2:HEAL /XXX.X/X/X/5,</p> <p>d. MV2:XXX.X/HEAL/X/5/X,</p> <p>3. Which of the following is the correct entry to specify the muzzle velocity for the 1st charge number.</p> <p>a. MV1:XXX.X/HEAL/X/X/1:</p> <p>*b. MV1:XXX.X/HEAL/X/X/1,</p> <p>c. MV1:XXX.X/HEAL/1/X/X,</p> <p>d. MV1:XXX.X/HEAL/1/1/1,</p> <p>6.3 Pick the statements that indicate the results of taking computer action on an AFU;MV message to input specific muzzle velocities for weapons in a FU.</p> <p>*a. The FU file is updated.</p> <p>b. The Div Arty file is updated.</p> <p>c. The DPM is activated.</p> <p>*d. The AFU;MV message is printed in the ELP.</p> <p>e. Muzzle velocities at the designated FU are verified.</p> <p><u>(a,d)</u></p>	

TAIS No. 3006

MODULE AFUUNIT MV

TEST ITEMS

TASK IDENTIFICATION: 6.0

TASK ELEMENTS: 6.1 - 6.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>6.4 You have entered the current muzzle velocities for the weapon in one of the FUs and wish to verify the data was entered in the AFU;MV message using the AFU;CMD message to retrieve the fire unit file. Listed below in a scrambled order are the steps to take to verify the contents of the AFU;MV message. Place the steps in the ocrrect order.</p> <ul style="list-style-type: none"> a. Use PRIORITY MESSAGE switch and CYCLE MESSAGES switch to display the AFU;MV message on the RD. b. Take C/ED CMPTR ACTION. c. Take DELETE action to remove the AFU;MV message from the RD. d. Verify entries. e. Select and display AFU;CMD message. f. Specify FU name and EDIT. <ol style="list-style-type: none"> 1. The first step is <u>(e)</u>? 2. If the second step (Step 2) is <u>f</u>, Specify FU name and EDIT, the next step (Step 3) is <u>(b)</u>? 3. If the fifth step (Step 5) is <u>d</u>, Verify entries, the last step (Step 6) is this sequence is <u>(c)</u>? 	

20 August 1975

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System Development Corporation
TM-5544/001/00

Module 4: Support Function (SPRT)

TAIS No. 4001MODULE SPRTUNIT INTRO

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 1.0
2. TASK: State the purpose and use of SPRT messages.
3. CONDITIONS: Given different formatted test items concerning the purpose and use of SPRT messages, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
1.1 State define geographic area within which operations take place.	1.1 None. 1.2 None.	None	DTM 11-7440-240-10
1.2 Align the DPM.	1.3 None.		Chapter 3 Pages 3-82 through 3-83; 3-88 through 3-90.
1.3 Define geometry file data.			Chapter 5 Pages 5-1 through 5-32; 5-45 through 5-56.

TAIS No. 4001MODULE SPRTUNIT INTRO

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1 - 1.3

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>1.1 - 1.3</p> <p>The student is able to pick from a list the major uses of SPRT messages as being:</p> <p>A. Define geographic area within which operations take place.</p> <p>B. Align the DPM.</p> <p>C. Define geometry file data.</p>	

TAIS No. 4001

4-139

MODULE SPRT

UNIT INTRO

TEST ITEMS

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1 - 1.3

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>1.1 - 1.3</p> <p>Answer the following questions concerning the use of SPRT messages:</p> <p>A. Support messages are used to align the (ELP/DPM)?</p> <p>B. Geometry data such as No Fire Lines and Fire Coordination Lines are specified using SPRT messages. (True/False)</p> <p>C. SPRT messages are used to account for ammo expended by Bn FUs. (True/False)</p>	

FAIS No. 4002MODULE SPRTUNIT MAP

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 2.0
2. TASK: Establish the geographic area of interest (MAP MOD), print out and verify entries.
3. CONDITIONS: Given requirements to establish the MAP MOD, select correct message formats and fill in appropriate entries.
 Given sample SPRT 7201 MAP MOD LIST output message, interpret message content.
 Given different formatted test questions concerning the establishment of the MAP MOD and SPRT 7201 MAP MOD LIST output message, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
2.1 Select and display SPRT;MAP message.	2.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
2.2 Identify entries for map modification parameters.	2.2 Know operation of ACC component parts.	2. Picture of the SPRT directory message.	Chapter 3 Pages 3-82 through 3-83; 3-88 through 3-90.
2.3 Identify results of computer action.	2.3 None.		
2.4 Print SPRT 7201 MAP MOD LIST output message.	2.4 Know how to select and display messages using format matrix switches.	3. Entry data and SPRT;MAP format.	Chapter 5 Pages 5-1 through 5-32; 5-45 through 5-56.
2.5 Interpret SPRT 7201 MAP MOD LIST output message.	2.5 Able to decode mnemonics.	4. Picture of a SPRT 7201 MAP MOD LIST output message. 5. Additional material to be developed as required.	

TAIS No. 4002MODULE SPRTUNIT MAP

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>2.1</p> <p>A. Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that are used to select and display the SPRT;MAP message format. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches B and 4. 2. Activate FORMAT COMMAND switch. <p>B. As an alternate method, using the above picture/drawing and a picture of the SPRT directory message, the student can indicate the switch actions to take to select the SPRT;MAP message using the SPRT directory message. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches H and 4. 2. Activate FORMAT COMMAND switch. 3. After the SPRT directory message is displayed on the CED, move cursor under the letter M. 4. Activate the FORMAT SELECT switch. 	<p>2.1.1 Pick from a list the purpose of the SPRT;MAP message as being: To UPDATE, MODIFY OR DELETE MAP MOD DATA.</p> <p>2.2.1 State CED as being where the SPRT;MAP message format will display after being selected.</p> <p>2.2.2 Match the following mnemonics with their definition and function:</p> <ol style="list-style-type: none"> a. EAST - Most eastern and western edge b. NORTH - Most northern and southern edge c. GZ - Grid zone d. SPHERE - Spheroids <p>Note: Explanation of additional mnemonics will be included within the instructional material for student review.</p> <p>2.2.3 Select from a list the following restrictions concerning the specification of the easting and northing parameters as being:</p> <ol style="list-style-type: none"> a. Maximum easting entry must exceed 100,000 meters. b. Maximum width of the MAP MOD must not exceed 100,000 meters.

TAIS No. 4002MODULE SPRTUNIT MAP

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>2.2 Given information to establish the MAP MOD, the student will identify the data to simulate the completion of the SPRT;MAP input message. Data entries will include:</p> <ul style="list-style-type: none"> • Easting • Northing • Grid zone • Spheroid <p>(Data to be specified)</p> <p>2.3</p> <p>A. The student can identify the switch action to take to process the completed SPRT;MAP input message as being: C/ED CMPTR ACTION.</p> <p>B. The student can select from a list the results of taking computer action on a SPRT;MAP message as being:</p> <ol style="list-style-type: none"> 1) Bn file is updated. 2) ETD at Div Arty is oriented. 	<p>2.2.4 Pick from a list the one message that is output when the maximum easting parameter entered in the SPRT;MAP message does not exceed 100,000 meters as being: INVALID EASTINGS.</p> <p>2.4.1 Select from a list the message used to control the output of support data as being: SPRT;CMD.</p> <p>2.4.2 Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the SPRT;CMD message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches G and 4. 2. Activate FORMAT COMMAND switch. <p>2.4.3 State CED as being where the SPRT;CMD message format will appear after selection.</p> <p>2.4.4 Pick from a list the only output control entry in the SPRT;CMD message that is valid with MAPMOD as being: PRINT.</p>

TAIS No. 4002MODULE SPRT
UNIT MAP

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>2.4 When presented with a list of procedures to print the SPRT 7201 MAP MOD LIST output message, but with the steps in a scrambled order, the student can state the correct order in which these procedures are performed. The correct order is:</p> <ul style="list-style-type: none">a. Select and display SPRT;COMD message.b. Specify PRINT and MAPMOD.c. Take C/ED CMPTR ACTION. <p>2.5 Given a SPRT 7201 MAP MOD LIST output message as printed on the ELP, the student is able to interpret the contents of the message.</p> <p>(To be developed)</p>	

TEST ITEMS

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>2.1 A1. Look at the SPA in Figure _____. You have been given a message by the S-3 to establish the MAP MOD. What format matrix switches would you use to select the SPRT;MAP message format? (B) and (4)</p> <p>A2. Look at the SPA in Figure _____. You have pressed matrix format switches B and 4 to select the SPRT;MAP message format. What switch is required to display it on the CED? (Enter number from Figure _____) (____)</p> <p>B1. You are using the SPRT;DIR message format to obtain the SPRT;MAP message format. What SPA matrix switches (A to H and 1 to 8) in Figure _____ would you use to select the SPRT;DIR message format? (Enter letter and number) (H) and (4)</p> <p>B2. Having selected the SPRT;DIR message format on the SPA, what switch action would you take to display the message format on the CED? (Enter number for the switch from Figure _____) (____)</p> <p>B3. Refer to Figure _____ which shows a SPRT;DIR format. Under what letter would you locate the cursor to obtain the SPRT;MAP message format? (M)</p> <p>B4. To display the SPRT;MAP message format that you selected using the SPRT;DIR format, you must activate the FORMAT (SELECT) switch.</p>	<p>2.1.1 The SPRT;MAP message is used to:</p> <ul style="list-style-type: none"> *a. Update, modify or delete MAP MOD data. b. Align the map on the DPM. c. Transmit the Bn map to each FU. d. Designate symbols for use on plotting maps. <p>2.2.1 After being selected, the SPRT;MAP message format will appear on the (CED)?</p> <p>2.2.2 From the following list, match each mnemonic with its definition and function.</p> <ul style="list-style-type: none"> a. Grid zone b. Most eastern and western edge c. Spheroid d. Most northern and southern edge <p>NORTH (d)</p> <p>SPHERE (c)</p> <p>GZ (a)</p> <p>EAST (b)</p>

TEST ITEMS

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>2.2 You have been given the data to establish the MAP MOD as part of system initialization. You have already selected the SPRT;MAP format message (Figure A) and now must enter the information. Answer the following questions concerning the entry of data into the SPRT;MAP message format.</p> <p>(Sample data and questions)</p> <p>Data to be included in Figure B:</p> <ul style="list-style-type: none"> • Easting - 290000 680000 • Northing - 5200000 5120000 • Grid zone - +10 • Spheroid - 1 <p>Refer to Figures A and B for the following questions.</p> <p>1. Which of the following is the correct entry for the Easting coordinates?</p> <ul style="list-style-type: none"> a. EAST:680000/290000; *b. EAST:290000/680000; c. EAST:520000/512000; d. EAST:512000/520000; 	<p>2.2.3 1. When specifying the easting coordinates for the MAP MOD in the SPRT;MAP message, the maximum easting entry must exceed:</p> <ul style="list-style-type: none"> a. 1,000 meters b. 10,000 meters *c. 100,000 meters d. 1,000,000 meters <p>2. When specifying the width of the MAP MOD in the SPRT;MAP message, it must <u>not</u> exceed:</p> <ul style="list-style-type: none"> a. 1,000 meters b. 10,000 meters *c. 100,000 meters d. 1,000,000 meters <p>2.2.4 When the maximum easting parameter entered in the SPRT;MAP message does not exceed 100,000 meters, the computer indicates:</p> <ul style="list-style-type: none"> a. INCREASE EASTINGS *b. INVALID EASTINGS c. EASTINGS REJECTED d. VALUE OF EASTINGS NOT VALID

TEST ITEMS

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>2.2</p> <p>2. Which of the following is the correct entry for the Northing coordinates?</p> <p>*a. NORTH:5200000/5120000;</p> <p>b. NORTH:5120000/5200000;</p> <p>c. NORTH:6800000/2900000;</p> <p>d. NORTH:2900000/6800000;</p> <p>3. Which of the following is the correct entry for the grid zone and spheroid?</p> <p>a. GZ:-10/SPHERE:1;</p> <p>b. GZ:+10/SPHERE:8;</p> <p>*c. GZ:10/SPHERE:1;</p> <p>2.3 A. The switch action to take to process the completed SPRT;MAP input message is the (C/ED CMPTR ACTION).</p> <p>B. After processing a SPRT;MAP message, the MAP MOD for the (Bn/FU) file is updated.</p> <p>2.4 Put in the correct order the steps to print the SPRT 7201 MAP MOD LIST output message.</p> <p>a. Take C/ED CMPTR ACTION.</p> <p>b. Specify PRINT and MAPMOD.</p> <p>c. Select and display SPRT;COMD message.</p> <p>(c,b,a)</p>	<p>2.4.1 Which of the following messages must be used to control the output of support data?</p> <p>a. SPRT;MAP</p> <p>b. SPRT;DPM</p> <p>*c. SPRT;COMD</p> <p>d. SPRT;GEOM</p> <p>2.4.2 Refer to Figure _____. From the list below, first <u>select</u> the procedural steps required to select and display the SPRT user command message and then <u>place</u> them in the correct order.</p> <p>a. Activate FORMAT SELECT switch.</p> <p>b. Depress switches H and 4.</p> <p>*c. Activate FORMAT COMMAND switch.</p> <p>d. Activate CYCLE MESSAGES switch.</p> <p>*e. Depress switches G and 4.</p> <p>(e,c)</p> <p>2.4.3 After being selected, the SPRT;COMD message format will appear on the (CED/RD)?</p> <p>2.4.4 Which one of the following is the only valid entry in the SPRT;MAP message that can be used with the mnemonic MAPMOD?</p> <p>a. XMIT</p> <p>b. EDIT</p> <p>c. SHOW</p> <p>*d. PRINT</p>

FAIS No. 4002

4-147

MODULE SPRT

UNIT MAP

TEST ITEMS

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>2.5 Refer to Figure _____ which shows a SPRT 7201 MAP MOD LIST output message.</p> <p>A. The coordinates for the most western edge of the MAP MOD are <u>(680000)</u>?</p> <p>B. The coordinates for the most northern edge of the MAP MOD are <u>(5200000)</u>?</p> <p>C. The grid zone is <u>(10)</u>.</p> <p>D. You know the grid zone is in the northern hemisphere because:</p> <p>1) The number is less than 30.</p> <p>*2) The number is positive.</p> <p>3) TACFIRE can only operate in the northern hemisphere.</p>	

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 3.0

2. TASK: Orient a map to the digital plotter map (DPM) and verify orientation coordinates.

3. CONDITIONS: Given requirement to orient a map to the DPM, select correct message format and fill in appropriate entries.

Given different formatted test questions concerning the orientation of a map to the DPM, provide correct response.

4. STANDARD: No errors.

5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
3.1 Select and display SPRT;DPM input message.	3.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
3.2 Prepare DPM for orientation.	3.2 Know operation of DPM.	2. Picture of DPM and hand control unit.	Chapter 3, Pages 3-82 through 3-83; 3-88 through 3-90.
3.3 Orient map on DPM and identify coordinates in SPRT;DPM message.	3.3 Know operation of DPM and ACC component parts.	3. Entry data and SPRT;DPM format.	Chapter 5, Pages 5-1 through 5-32; 5-45 through 5-56.
3.4 Identify results of computer action.	3.4 None.	4. Additional material to be developed as required.	

TAIS No. 4003MODULE SPRTUNIT DPM

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>3.1 Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the SPRT;DPM message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches C and 4. 2. Activate FORMAT COMMAND switch. 	<p>3.1.1 Pick from a list the definition of the term DPM as being: DIGITAL PLOTTER MAP.</p> <p>3.1.2 Pick from the SPA the support message format used to orient a map to the Digital Plotter Map as being: SPRT;DPM.</p>
<p>3.2 Given a picture of the DPM and hand control unit and a list of procedures to prepare the DPM for orientation, but with the steps in a scrambled order, the student can identify the correct order in which these steps are performed. The correct order is:</p> <ol style="list-style-type: none"> a. Press MANUAL switch on DPM. b. Set marker to UP on hand control. c. Press BRIDGE ENABLE switch on DPM. 	<p>3.3.1 Select from a list the correct order in which the coordinates are plotted on the DPM to orient a map as being: LOWER LEFT, UPPER LEFT, UPPER RIGHT, LOWER RIGHT.</p> <p>3.3.2 State in the same order as being how the map coordinates are entered into the SPRT;DPM message as obtained on the map in the DPM.</p> <p>3.4.1 The student can state the switch action to take to process the completed SPRT;DPM message as being: C/ED CMPTR ACTION.</p> <p>3.4.2 Pick from a list the symbol drawn by the DPM at each orientation coordinate as a result of taking computer action on the SPRT;DPM message as being: A CROSS</p> <p>3.4.3 Pick from a list the error message output when the coordinates entered in the SPRT;DPM message are outside the MAP MOD as being: DPM NOT IN MAP MOD.</p> <p>3.4.4 Pick from a list the operation that is required if the orientation points on the DPM map and those entered in the SPRT;DPM message do not match as being: REPEAT THE ORIENTATION PROCESS.</p>

TAIS No. 4003MODULE SPRTUNIT DPM

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>3.3</p> <p>A. Given a picture of the DPM and hand control unit and a list of procedures to orient a map on the DPM, but with the procedures in a scrambled order, the student can state the correct order in which those procedures are performed. The correct order is:</p> <ol style="list-style-type: none">1. Orient reticle on lower left map coordinate.2. Lower reticle to map surface.3. Center crosshairs of reticle exactly over intersection of the coordinates.4. Raise reticle.5. Press ENTER COORD switch on hand held unit.6. Enter coordinates in SPRT;DPM message.7. Repeat steps (2 through 6) to obtain coordinates for the upper left, upper right, and lower right position on the map, in that order.8. Press AUTO switch on DPM.	

TAIS No. 4003MODULE SPRT
UNIT DPM

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.4

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>3.3</p> <p>B. Given the coordinates for orienting a map on the DPM, the student will identify the data to simulate completion of the SPRT;DPM input message. Data entries will include:</p> <ul style="list-style-type: none">• Grid coordinates• Grid zone <p>3.4 The student can select from a list the results of taking computer action on a SPRT;DPM message as being: DPM PLOTS THE ORIENTATION POINTS.</p>	

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.1</p> <p>A. Refer to Figure _____. You have moved into a new area of operations and need to orient the map to the Digital Plotter Map (DPM). What message format from the SPA would you use to do this? (Enter letter and number) <u>(C)</u> and <u>(4)</u></p> <p>B. What switch action (Figure _____) would you take to display the SPRT;DPM message format on the CED? <u>()</u></p> <p>3.2 The following are the steps required so that a map can be oriented to the DPM, but in a scrambled order. Put them in the correct order:</p> <p>a. Set marker to UP on the hand control.</p> <p>b. Press MANUAL switch on the DPM.</p> <p>c. Press BRIDGE ENABLE switch on DPM.</p> <p><u>(b,a,c)</u></p>	<p>3.1.1 The term DPM stands for:</p> <p>a. Data Processing Module</p> <p>*b. Digital Plotter Map</p> <p>c. Digital Processing Machine</p> <p>d. Data Processing Map</p> <p>3.1.2 The support message used to orient the Digital Plotter Map is the:</p> <p>a. SPRT;MAP</p> <p>b. SPRT;COMD</p> <p>*c. SPRT;DPM</p> <p>d. SPRT;ZNE</p> <p>3.3.1 What is the correct order in which coordinates are plotted on the DPM to orient a map?</p> <p>a. Lower right, upper right, upper left, lower left.</p> <p>*b. Lower left, upper left, upper right, lower right.</p> <p>c. Lower left, upper right, lower right, upper left.</p> <p>d. Upper left, lower right, upper right, lower left.</p>

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.3</p> <p>A1. Refer to Figure _____. You are at the DPM and need to orient a map to the DPM. Which one of the following is your first step?</p> <p>a. Raise reticle.</p> <p>*b. Orient DPM reticle on lower left map coordinates.</p> <p>c. Press AUTO switch on DPM.</p> <p>d. Press ENTER COORD switch on hand held unit.</p> <p>A2. You have moved into a new location and are orienting the map to the DPM. For y c first reference point, you have centered the reticle crosshairs over the point and then raised the reticle. What switch in Figure _____ do you now activate? (_____)</p> <p>A3. You have moved and are orienting the new map to the DPM. The COORD1 and 2 entries have been made in the SPRT;DPM message and at each of the four points the DPM reticle has been centered and entered by the ENTER COORD switch. What ACC console switch action (Figure _____) do you now use to complete the orientation of the map to the DPM and check the results? (Enter number) (_____)</p>	<p>3.3.2 In what order are the map orientation coordinates entered into the SPRT;MAP message?</p> <p>*a. Same order as plotted.</p> <p>b. Reverse order.</p> <p>c. Only lower left and upper right coordinates are entered.</p> <p>d. No set order is required.</p> <p>3.4.1 The switch action to take to have the completed SPRT;DPM processed is (C/ED CMPTR ACTION).</p> <p>3.4.2 What is the symbol that the DPM draws over each map orientation point?</p> <p>a. Point or dot</p> <p>b. Circle</p> <p>*c. Cross</p> <p>d. The numbers 1, 2, 3 and 4</p> <p>3.4.3 If a coordinate entered into the SPRT;DPM message is outside the MAP MOD, the computer will indicate:</p> <p>a. POINT NOT IN MAP MOD</p> <p>*b. DPM NOT IN MAP MOD</p> <p>c. DPM NOT ORIENTED</p> <p>d. AREA TOO LARGE</p>

TATS No. 4003

MODULE SPRT

UNIT DPM

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.4

CRITERION ITEM(S)	ENABLING ITEM(S)																		
<p>3.3 B. You must orient a map on the DPM. As each map coordinate point is established on the DPM it must be entered into the TACFIRE data base. You have already selected the SPRT;DPM message format (Figure C) and must now enter the information. Answer the following questions concerning the entry of data into the SPRT;DPM message format.</p> <p>(Sample data and questions)</p> <p>Data to be included in Figure D:</p> <table> <tr> <td></td><td>Grid Zone</td></tr> <tr> <td>LL 93000 - 55000</td><td>+10</td></tr> <tr> <td>00000 - 61000</td><td>+10</td></tr> <tr> <td>UL 93000 - 98000</td><td>+10</td></tr> <tr> <td>00000 - 00000</td><td>+10</td></tr> <tr> <td>UR 85000 - 98000</td><td>+11</td></tr> <tr> <td>80000 - 00000</td><td>+11</td></tr> <tr> <td>LR 85000 - 55000</td><td>+11</td></tr> <tr> <td>80000 - 60000</td><td>+11</td></tr> </table> <p>Refer to Figures C and D for the following questions:</p> <p>1. Which of the following is the correct entry for the first grid coordinate?</p> <p>a. COORD1:93000/98000/10,</p> <p>b. COORD2:93000/98000/10,</p> <p>*c. COORD1:93000/55000/10,</p> <p>d. COORD1:93000/55000/10,</p>		Grid Zone	LL 93000 - 55000	+10	00000 - 61000	+10	UL 93000 - 98000	+10	00000 - 00000	+10	UR 85000 - 98000	+11	80000 - 00000	+11	LR 85000 - 55000	+11	80000 - 60000	+11	<p>3.4.4 What must be done if the orientation points on the DPM map do not match the coordinates entered into the SPRT;DPM message?</p> <p>a. Change the map.</p> <p>b. Turn the DPM off.</p> <p>*c. Repeat the orientation process.</p> <p>d. Adjust the lower left map coordinate.</p>
	Grid Zone																		
LL 93000 - 55000	+10																		
00000 - 61000	+10																		
UL 93000 - 98000	+10																		
00000 - 00000	+10																		
UR 85000 - 98000	+11																		
80000 - 00000	+11																		
LR 85000 - 55000	+11																		
80000 - 60000	+11																		

IAIS No. 4003

MODULE SPRTUNIT DPM

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.4

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.3 B.</p> <p>2. The grid zone for the two coordinates on the right side of the map is <u>(11)</u>.</p> <p>3. Which of the following is the correct entry for the second point in the COORD2 field?</p> <p>a. COORD2:85000 /98000 /10</p> <p>*b. COORD2:85000 /55000 /11</p> <p>c. COORD2:85000 /98000 /11</p> <p>d. COORD2:93000 /98000 /10</p> <p>3.4 After taking computer action to enter the SPRT;DPM message, the DPM will:</p> <p>a. Automatically turn off.</p> <p>*b. Plot the orientation points.</p> <p>c. Plot a diagonal line from lower left to upper right.</p>	

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 4.0

2. TASK: Update geometry file to enter a No Fire Line (NFL), print out and verify entries, show on DPM.

3. CONDITIONS: Given requirements to enter a NFL, select correct message format and fill in appropriate entries.

Given sample SPRT 7202 ALTER GEOMETRY FILE REPORT output message, interpret message contents.

Given different formatted test questions concerning the entry of a NFL into the geometry file and SPRT 7202 ALTER GEOMETRY FILE REPORT output message, provide correct response.

4. STANDARD: No errors.

5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
4.1 Select and display SPRT;GEOM message.	4.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440-240-10
4.2 Identify entries for NFL.	4.2 Know operation of ACC component parts.	2. Entry data and SPRT;GEOM format.	Chapter 3, Pages 3-82 through 3-83; 3-88 through 3-90.
4.3 Identify results of computer action.	4.3 None.		
4.4 Print SPRT 7202 ALTER GEOMETRY FILE REPORT output message.	4.4 Know how to select and display SPRT;CMD message.	3. Picture of SPRT;CMD format.	Chapter 5, Pages 5-1 through 5-32; 5-45 through 5-56.
4.5 Interpret SPRT 7202 ALTER GEOMETRY FILE REPORT output message.	4.5 Able to decode mnemonics.	4. Picture of SPRT 7202 ALTER GEOMETRY FILE REPORT output message.	
4.6 Display NFL on DPM.	4.6 Know how to select and display SPRT;CMD message.	5. Additional material to be developed as required.	

TAIS No. 4004

MODULE SPRT

UNIT GEOM

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.6

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>4.1 Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the SPRT;GEOM message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches D and 4. 2. Activate FORMAT COMMAND switch. <p>4.2 Given the information to define a NFL, the student will identify the data to simulate completion of the SPRT;GEOM input message.</p> <p>Data entries will include:</p> <ul style="list-style-type: none"> • No fire line • Point coordinates <p>(Data to be specified)</p> <p>4.3</p> <p>A. The student can identify the switch action to take to process the completed SPRT;GEOM message as being: C/ED CMPTR ACTION.</p> <p>B. The student can select from a list the results of taking computer action on a SPRT;GEOM message as being: GEOMETRY FILE IS UPDATED.</p>	<p>4.1.1 Pick from a list the purpose of the SPRT;GEOM message as being: TO ADD, MODIFY OR DELETE ENTRIES FROM THE GEOMETRY FILE.</p> <p>4.2.1 State TWO as being the minimum number of point coordinates required to define a NFL.</p> <p>4.2.2 Pick from a list the orientation of a NFL in relationship to facing the enemy as being: LEFT TO RIGHT.</p> <p>4.2.3 Pick from a list the fields in the SPRT;GEOM message format in which the first points of a NFL are entered as being:COORD1.</p> <p>4.3.1 Match the type of input error with the error output message. Pairings are as follows:</p> <ol style="list-style-type: none"> a. Point coordinate - POINT NOT not in MAP MOD. IN MAP MOD b. Less than two - INCOMPLETE points entered. LINE <p>4.6.1 The student can identify SHOW as one of the entries to be made in the SPRT;CMD message format in order to display the NFL on the DPM.</p>

TAIS No. 4004MODULE SPRTUNIT GEOM

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.6

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>4.4 When presented with a list of procedures to print the SPRT 7202 ALTER GEOMETRY FILE REPORT output message, but with the steps in a scrambled order, the student can state the correct order in which these procedures are performed. The correct order is:</p> <ul style="list-style-type: none">a. Select and display SPRT;CMD message.b. Specify PRINT and NFL.c. Take C/ED CMPTR ACTION.	
<p>4.5 Given a SPRT 7202 ALTER GEOMETRY FILE REPORT output message as printed on the ELP, the student is able to interpret the contents of the message.</p>	
<p>4.6 When presented with a list of procedures to display a NFL on the DPM, but with the steps in a scrambled order, the student can state the correct order in which these procedures are performed. The correct order is:</p> <ul style="list-style-type: none">a. Select and display SPRT;CMD.b. Specify SHOW and NFL.c. Take C/ED CMPTR ACTION.	

TAIS No. 4004.

MODULE SPRT
UNIT GEOM

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.6

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.1 Refer to Figure ____.</p> <p>As a measure to safeguard troop safety, a No Fire Line (NFL) has been defined. As a first step you need to select the message format so the point coordinates for the NFL can be entered into the TACFIRE computer. From the list of steps given below, first <u>select</u> the procedural steps and then <u>place</u> them in the correct order.</p> <p>*a. Depress switches D and 4.</p> <p>b. Depress switches F and 4.</p> <p>c. Activate FORMAT SELECT switch.</p> <p>d. Activate C/ED CMPTR ACTION switch.</p> <p>*e. Activate FORMAT COMMAND switch.</p> <p><u>(a,e)</u></p>	<p>4.1.1 To add, modify or delete entries from the geometry file you would use the:</p> <p>a. SPRT;DIR</p> <p>b. SPRT;COMD</p> <p>c. SPRT;DPM</p> <p>*d. SPRT;GEOM</p> <p>4.2.1 The minimum number of point coordinates that are required to define a NFL is <u>(2)</u>.</p> <p>4.2.2 The orientation of a NFL when facing the enemy is:</p> <p>*a. Left to right</p> <p>b. Right to left</p> <p>c. Front to rear</p> <p>d. Depends on movement of enemy troops</p> <p>4.2.3 The coordinates for the first three points of the NFL will go into which of the following fields of the SPRT;GEOM message format?</p> <p>*a. COORD1 only</p> <p>b. COORD1, COORD2 and COORD3</p> <p>c. COORD2 and COORD3</p>

TAIS No. 4004

MODULE SPRTUNIT GEOM

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.6

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.2 A NFL has been defined and this data must be entered into the TACFIRE data base. You have already selected the SPRT;GEOM format message (Figure E) and now must enter the information. Answer the following questions concerning the entry of data into the SPRT;GEOM message format.</p> <p>(Sample data and questions)</p> <p>Data to be included in Figure F:</p> <ul style="list-style-type: none"> Specify no fire line Point coordinates <ul style="list-style-type: none"> Coordinate number 1 <ul style="list-style-type: none"> Easting 91200 Northing 45200 Coordinate number 2 <ul style="list-style-type: none"> Easting 91300 Northing 46100 Coordinate number 3 <ul style="list-style-type: none"> Easting 91500 Northing 45000 Coordinate number 4 <ul style="list-style-type: none"> Easting 92500 Northing 46500 	<p>4.3.1 The error message INCOMPLETE LINE after taking computer action on a SPRT;GEOM message indicates:</p> <ul style="list-style-type: none"> a. Three more points are required. *b. Less than two points were entered. c. A circle has been formed. d. Two NFLs intersect. <p>4.6.1 To display the NFL (No Fire Line) on the DPM, which one of the following entries is included in the SPRT;COMD message format?</p> <ul style="list-style-type: none"> a. EDIT b. PRINT *c. SHOW d. NAME

TAIS No. 4004MODULE SPRTUNIT GEOM

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.6

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.2</p> <p>Refer to Figures E and F for the following questions.</p> <p>1. Which of the following is the correct entry to indicate data for a No Fire Line is to be entered?</p> <p>a. FCA:X;FCL: ;NFL: ;</p> <p>b. FCA: ;FCL:X;NFL: ;</p> <p>*c. FCA: ;FCL: ;NFL:X;</p> <p>2. The point coordinates are entered in which lines of the SPRT;GEOM message format:</p> <p>a. 1 and 2</p> <p>b. 2 and 3</p> <p>*c. 3 and 4</p> <p>d. 4 and 5</p> <p>3. Which of the following is the correct entry for the fourth point in the NFL:</p> <p>a. CORD1: 4/92000 /46500 ,</p> <p>*b. CORD2: 4/92000 /46500 ,</p> <p>c. CORD2: 4/46500 /92000 ,</p>	

FAIS No. 4004

MODULE SPRT

UNIT GEOM

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.6

CRITERION ITEM(S)	ENABLING ITEM(S)
4.2	
4. Which of the following is the correct entry for the second point in the NFL?	
*a. CORD1: ,/2/91300 /46100 ,	
b. CORD1: ,/2/46100/91300 ,	
c. CORD1: ,/ /91300/46100 ,	
4.3	
A. What switch action do you take to process the completed SPRT;GEOM input message?	
a. RD XMIT	
*b. C/ED CMPTR ACTION	
c. RD CMPTR ACTION	
d. REPLACE	
B. What is the result of taking computer action on the SPRT;GEOM message, that defines a NFL?	
a. The NFL is displayed on the DPM.	
b. The NFL is displayed on the ELP.	
*c. The geometry file is updated to include the NFL.	
d. The NFL is printed on the ELP.	

FAIS No. 4004MODULE SPRT
UNIT GEOM

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.6

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.4 Put in the correct order the steps to print the SPRT 7202 ALTER GEOMETRY FILE REPORT output message.</p> <p>a. Specify PRINT and NFL.</p> <p>b. Select and display SPRT;CMD.</p> <p>c. Take C/ED CMPTR ACTION.</p> <p><u>(b,a,c)</u></p> <p>4.5 Refer to Figure _____ which shows a SPRT 7202 ALTER GEOMETRY FILE REPORT output message.</p> <p>A. The area or line specified indicates this report concerns data for a (FCA/FCL/<u>NFL</u>).</p> <p>B. How many points have been entered to define the NFL? <u>(4)</u></p> <p>C. The northing coordinate for point three is:</p> <p>a. 45200</p> <p>b. 46100</p> <p>*c. 45000</p> <p>d. 46500</p>	

TAIS No. 4004

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MODULE SPRT

UNIT GEOM

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.6

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.6 Put in the correct order the steps to display a NFL on the DPM.</p> <p>a. Take C/ED CMPTR ACTION.</p> <p>b. Select and display SPRT;CMD.</p> <p>c. Specify SHOW and NFL.</p> <p><u>(b,c,a)</u></p>	

20 August 1975

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System Development Corporation
TM-5544/001/00

Module 5: Operating System Messages (SYS)

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 1.0
2. TASK: State the purpose and use of SYS messages.
3. CONDITIONS: Given different formatted test items concerning the purpose and use of SYS messages, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
1.1 State the purpose of SYS messages. 1.2 State the use of SYS messages.	1.1 None. 1.2 None.	None.	DTM 11-7440- 240-10 Chapter 4 Pages 4-1 through 4-14; 4-45 through 4-49; 4-83 through 4-97; 4-129 through 4-139.

TAIS No. 5001MODULE SYS
UNIT INTRO

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1 - 1.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>1.1-1.2 The student can pick from a list the purpose and use of SYS message as being:</p> <ul style="list-style-type: none">a. Initialize the systemb. Update FDC data base	

TAIS No. 5001

MODULE SYS
UNIT INTRO

TEST ITEMS

TASK IDENTIFICATION: 1.0

TASK ELEMENTS: 1.1 - 1.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>1.1-1.2 From the following list, pick the purpose and use of SYS (System) messages.</p> <ul style="list-style-type: none">*a. Update FDC data baseb. Request Div Arty support during fire mission processing.*c. Initialize the systemd. Perform ballistic computation.e. Operate back up power sources.	

TAIS No. 5002MODULE SYSUNIT PDS

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 2.0

2. TASK: Perform actions to place the ELP in a hold status during paper changing operation and return ELP to online status.

3. CONDITIONS: Given requirement to place ELP in hold status for paper changing and then return to online operation, the student can select the correct message format and fill in the appropriate entries.

Given different formatted test questions concerning placing the ELP in a hold status for paper changing and return to online status, provide correct response.

4. STANDARD: No errors

5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
2.1 Select and Display SYS; PDS message	2.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440 240-10 Chapter 4 Page 4-1
2.2 Identify procedures for HLD to ON status for paper changing in ELP	2.2 Know operation of ACC component parts.	2. Picture of the SYS directory message. 3. Entry data and SYS;PDS format. 4. Additional material to be developed as required.	through 4-14; 4-45 through 4-49; 4-83 through 4-97; 4-129 through 4-139. Discussions with and observations of TACFIRE personnel.

TAIS No. 5002

MODULE SYSUNIT PDS

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>2.1 A. Given a picture/drawing of the ACC switch panel assembly, identify the switch action that can be used to select and display the SYS;PDS message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches B and 1. 2. Activate FORMAT COMMAND switch. <p>B. As an alternate method, using the above picture and a picture of the SYS directory message, the student can indicate the switch actions to take to select the SYS;PDS message using the SYS directory message. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches H and 1. 2. Activate FORMAT COMMAND switch. 3. After the SYS directory message is display on the CED, move cursor under the first letter P. 4. Activate the FORMAT SELECT switch. 	<p>2.1.1 Select from a list the message to determine, input, or change the operating status of peripheral units as being: SYS;PDS.</p> <p>2.2.1 State CED as being where the SYS; PDS message will display after being selected.</p> <p>2.2.2 State FILLED-IN as being the status of the entries in the SYS; PDS when displayed.</p> <p>2.2.3 Identify the entry to make to place the ELP in a hold status as being: ELP1:3/3/HLD;</p> <p>2.2.4 State C/ED CMPTR ACTION as being the switch action to take to process the SYS;PDS message.</p> <p>2.2.5 Pick from a list the result of placing the ELP in a hold status for paper changing as being: MESSAGES TO BE PRINTED IN THE ELP ARE SAVED UNTIL THE ELP IS MADE OPERATIONAL, THEN PRINTED.</p> <p>2.2.6 Identify the entry to make to return the ELP to an operational status as being: ELP1:3/3/ON;</p>

TAIS No. 5002MODULE SYSUNIT PDS

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>2.2 When presented with a list of procedures to place the ELP in a hold status for paper changing and then return the ELP to an operational status, but with the steps in a scrambled order, the student can state the correct order in which these procedures are performed.</p> <p>The correct order is:</p> <ul style="list-style-type: none">a. Place ELP in HLD status.b. Take C/ED CMPTR ACTION.c. Change paper in ELP.d. Return ELP to ON status.e. Take C/ED CMPTR ACTION.	

TALS No. 5002

MODULE	SYS
UNIT	PDS

TEST ITEMS

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>2.1 A. Refer to Figure ____.</p> <p>The paper and lighted indicator on the ELP indicates the paper supply is low and needs to be changed. As a first step you need to select the message format that enables control of the operational status of the ELP. From the list of steps given below, first <u>select</u> the procedural steps and then <u>place</u> them in the correct order.</p> <p>*a. Activate FORMAT SELECT switch.</p> <p>b. Depress switches G and 1.</p> <p>c. Activate FORMAT COMMAND switch.</p> <p>*d. Depress switches B and 1.</p> <p>e. Depress switches C and 1.</p> <p><u>(d,a)</u></p>	<p>2.1.1 What message is used to change the operating status of peripheral units such as the ELP?</p> <p>a. SYS;PCLD.</p> <p>b. SYS;ADDR.</p> <p>c. SYS;PDS.</p> <p>*d. SYS;MDS.</p> <p>2.2.1 After selecting the SYS;PDS message, it will appear on which display? (<u>CED</u>).</p> <p>2.2.2 When the SYS;PDS message is displayed the entries are (blank/<u>filled in</u>)?</p> <p>2.2.3 Refer to Figure ____ which shows a SYS;PDS message. Which of the following is the correct entry to place the ELP in a hold status?</p> <p>a. ELP1:/ /HLD;</p> <p>*b. ELP1:3/3/HLD;</p> <p>c. ELP2: / /HLD;</p> <p>d. ELP2:3/3/HLD;</p>

TAIS No. 5002MODULE SYSUNIT PDS

TEST ITEMS

TASK IDENTIFICATION: 2.0

TASK ELEMENTS: 2.1 - 2.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>2.1 B. Refer to Figures ____ and ____.</p> <p>Put in the correct order the procedures to select the SYS peripheral device status message using the SYS directory message.</p> <ol style="list-style-type: none"> 1. Depress switches H and 1. 2. Activate the FORMAT SELECT switch. 3. Activate the FORMAT COMMAND switch. 4. After the SYS directory message is displayed on the CED, move cursor under the first letter P. <p>(1, 3, 4, 2)</p> <p>2.2 The paper supply in the ELP is low and needs to be changed. You have already selected the SYS;PDS message. Put in the correct order the steps to take to control the status of the ELP for the paper changing operation.</p> <p>(A step may be used more than once.)</p> <ol style="list-style-type: none"> a. Take C/ED CMPTR ACTION. b. Change paper in ELP. c. Place ELP in HLD status. d. Return ELP to ON status. <p>(c, a, b, d, a)</p>	<p>2.2.4 What is the switch action to take to have the SYS;PDS processed?</p> <p>(C/ED CMPTR ACTION)</p> <p>2.2.5 What is the result of placing the ELP in a hold state during the paper changing operation?</p> <ol style="list-style-type: none"> a. Saves power. b. Messages to be printed on the ELP are lost until ELP is made operational. *c. Messages to be printed on the ELP are saved until the ELP is made operational, then printed. d. Messages to be printed on the ELP are routed to Div Arty for later transmission to the Bn. <p>2.2.6 What is the correct entry to make to return the ELP to an operational status?</p> <ol style="list-style-type: none"> *a. ELPL:3/3/ON; b. ELP1: / /ON; c. ELP2: 3/3/ON; d. ELP2: / /ON;

TAIS No. 5003MODULE SYS
UNIT PCLD

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 3.0
2. TASK: Change display status of FM;RFAF and FM;SUBS to display and verify entries on incoming FM messages.
3. CONDITIONS: Given requirement to cause the FM;RFAF and FM;SUBS input message to be displayed before processing occurs, select correct message format and fill in appropriate entries. Given a partial SYS 1201 output message, interpret message contents. Given different formatted test items concerning the changing of the display status for FM;RFAF and FM;SUBS message and SYS 1201 output message, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
3.1 Select and display SYS;PCLD message.	3.1 Know operation of ACC component parts.	1. Picture/drawing of ACC.	DTM 11-7440 240-10
3.2 Identify entries for changing display status.	3.2 Know operation of ACC component parts.	2. Entry data and SYS; PCLD format.	Chapter 4 Pages 4-1 through 4-14; 4-45 through 4-49; 4-83 through 4-97; 4-129 through 4-139.
3.3 Take computer action.	3.3 Know operation of ACC component parts.	3. Picture of a partial SYS 1201 output message.	
3.4 Print SYS 1201 output message.	3.4 Know how to select and display messages using format matrix switches.	4. Additional material to be developed as required.	
3.5 Interpret partial SYS 1201 output message.	3.5 Able to decode mnemonics.		

TAIS No. 5003MODULE SYSUNIT PCLD

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>3.1 Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the SYS;PCLD message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches C and I. 2. Activate the FORMAT COMMAND switch. <p>3.2 Given information to change the display status of the FM messages FM;RFAF and FM;SUBS, the student will identify the data to simulate the completion of the SYS;PCLD input message. The data will include:</p> <p>A1:FM/RFAF/ / / /Y;</p> <p>B1:FM/SUBS/ / / /Y;</p> <p>3.3 The student can identify the switch action to take to process the completed SYS;PCLD input message as being: C/ED CMPTR ACTION</p> <p>3.4 When presented with a list of procedures to print the SYS 1201 output message, but with the steps in a scrambled order, the student can state the correct order in which these procedures are performed. The correct order is:</p>	<p>3.1.1 Pick from a list the message that is used to change the display status of messages as being: SYS;PCLD.</p> <p>3.2.1 Equate LOGGING with PRINTED ON ELP.</p> <p>3.2.2 State NOT DISPLAYED as being how FM input messages are normally established before computer processing occurs.</p> <p>3.2.3 Pick from a list the requirement for those subfields in which changes are not to be made as being: SUBFIELD CAN BE BLANK.</p> <p>3.5.1 Match the following mnemonics with their definition and function.</p> <ol style="list-style-type: none"> a. CAT - message category b. TYPE - message type c. PRT - message priority d. CLASS - security classification e. LOG - logging status f. DEPL - display status

TAIS No. 5003MODULE SYS
UNIT PCLD

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.5

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<ul style="list-style-type: none">a. Select and display SYS;PCLDb. Specify PRINTc. Take C/ED CMPTR ACTION <p>3.5 Given a partial SYS 1201 output message as printed on the ELP, the student is able to interpret the contents of the message.</p> <p>(To be developed.)</p>	

TAIS No. 5003MODULE SYSUNIT PCLD

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.1 Refer to Figure _____.</p> <p>The FDO has decided he wishes to review incoming FM messages, FM;RFAF and FM;SUBS before they are processed by the computer. To do this, the display status for these two types of FM messages must be changed. As a first step, you need to select the message format so this can be done.</p> <p>a. To select the message format you depress the SPA format matrix switches (C) and (1).</p> <p>b. To display the message format selected you would press the FORMAT (COMMAND) switch.</p> <p>3.2 The FDO has requested you change the display status of the FM message FM;RFAF and FM;SUBS so these messages will be available for display on the RD before they are processed by the computer, you have already selected the SYS;PCLD format message (Figure A) and must now enter the changes. Answer the following questions concerning the entry of data into the SYS;PCLD message format.</p> <p>Data to be included in Figure B:</p> <ul style="list-style-type: none"> • Change display status of FM;RFAF to Yes. Other status remains unchanged. • Change display status of FM;SUBS to Yes. Other status remains unchanged. 	<p>3.1.1 What system message is used to change the display status of messages.</p> <p>a. SYS;DIR</p> <p>b. SYS;MISC</p> <p>c. SYS;PDS</p> <p>*d. SYS;PCLD</p> <p>3.2.1 Logging of a message means that it is:</p> <p>*a. Printed on the ELP.</p> <p>b. Plotted on the DPM.</p> <p>c. Displayed on the CED.</p> <p>d. Displayed on the RD.</p> <p>3.2.2 FM input messages are normally established so that they (will/will not) display on the RD before computer processing takes place.</p> <p>3.2.3 If the data for a particular subfield for a message category and type is not to be changed, the subfield can be (deleted/left blank).</p>

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3.2 1. Which of the following is the correct entry to change the display status to Yes for FM; RFAF.</p> <p>a. A1:FM/RFAF/Y/ / / ;</p> <p>b. A1:FM/RFAF/ /N / / ;</p> <p>c. A1:FM/RFAF/ / / /N;</p> <p>*d. A1:FM/RFAF/ / / /Y;</p> <p>2. Which of the following is the correct entry to change the display status to Yes for FM; SUBS.</p> <p>*a. B1:FM/SUBS/ / / /Y;</p> <p>b. B1:FM/SUBS/Y/ / / ;</p> <p>c. B1:FM/SUBS/ / / / ;</p> <p>d. B1:FM/SUBS/ / / /N;</p> <p>3.3 The switch action taken to process the computer SYS;PCLD input message is: (C/ED CMPTR ACTION)</p> <p>3.4 Put in the correct order the steps to print the SYS 1201 output message:</p> <p>a. Specify PRINT</p> <p>b. Select and display SYS;PCLD</p> <p>c. Take C/ED CMPTR ACTION</p> <p><u>(b, a, c)</u></p>	<p>3.5.1 From the following list, match each mnemonic with its definition and function:</p> <p>a. Defines the message type.</p> <p>b. Establishes the priority for the message.</p> <p>c. Indicates the display status.</p> <p>d. Indicates the logging status.</p> <p>e. Indicates the security classification.</p> <p>PRT - <u>(b)</u></p> <p>TYPE - <u>(a)</u></p> <p>CLASS - <u>(e)</u></p> <p>LOG - <u>(d)</u></p> <p>DISP - <u>(c)</u></p>

TAIS No. 5003MODULE SYS
UNIT PCLD

TEST ITEMS

TASK IDENTIFICATION: 3.0

TASK ELEMENTS: 3.1 - 3.5

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>3,5 Refer to Figure _____ which shows a partial SYS 1201 output message.</p> <ol style="list-style-type: none">1. The display status for FM;RFAF is indicated by the letter <u>(Y)</u>.2. The letters UN indicate the classifications for all FM messages except FM;NUKE is <u>(Unclassified)</u>.3. The priority established for FM;RFAF and FM;SUBS is (2). (Enter a number.)	

TAIS No. 5004

MODULE	<u>SYS</u>
UNIT	<u>INIT</u>

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 4.0
2. TASK: Take action to cause Bn TACFIRE to be operational.
3. CONDITIONS: Given requirement to initialize the Bn TACFIRE system, select the correct message format and fill in the appropriate entries. Given different formatted test questions concerning the initializing of the Bn TACFIRE system, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
4.1 Select and display SYS;INIT message.	4.1 Know operation of ACC.	1. Picture/ drawing of ACC.	DTM 11-7440- 240-10 Chapter 4 Pages 4-1 through 4-14; 4-45 through 4-49; 4-83 through 4-97; 4-129 through 4-139.
4.2 Identify entries for initializing the system.	4.2 Know operation of ACC.	2. Entry data and SYS; INIT format.	
4.3 Take computer action and identify results.	4.3 Know operation of ACC.	3. Sample sys- tem ready messages.	
		4. Additional material to be developed as required.	

TAIS No. 5004MODULE SYS
UNIT INIT

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.3

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>4.1 Given a picture/drawing of the ACC switch panel assembly, identify the switch actions that can be used to select and display the SYS;INIT message. The switch matrix is referenced by letters for rows and numbers for columns. The student is able to match the correct letter/number combination to select the required message format. The correct steps are:</p> <ol style="list-style-type: none"> 1. Depress switches B and 2. 2. Activate <i>FORMAT COMMAND</i> switch. <p>4.2 Given information to initialize the Bn TACFIRE computer, the student will identify the data to simulate the completion of the SYS;INIT input message. Data entries will include:</p> <ul style="list-style-type: none"> • Target number block • Identity • Date • Time • Alter time • Ready entry <p>(Data to be specified)</p> <p>4.3 A. The student can identify the switch action to take to process the completed SYS;INIT input message as being: C/ED CMPTR ACTION</p>	<p>4.1.1 Select from a list the message to use to initialize the Bn TACFIRE system and cause the system to be operational as being: SYS;INIT.</p> <p>4.2.1 Match the following mnemonics with their definition and function:</p> <ol style="list-style-type: none"> a. TGT - Target number block assignment. b. ID - Identity of FDC being initialized. c. DATE - Day, month, year d. Time - Current system time e. ALTER - Update time f. GO - Indicates FDC is ready for operation. <p>Note: Explanation of additional mnemonics will be included within the instructional material for student review.</p> <p>4.2.2 Pick from a list the agency that controls the target number block assignments as being:</p> <p>DIV ARTY S-3</p>

TAIS No. 5004MODULE SYS
UNIT INIT

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.3

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>4.3 B. Given sample system ready messages, the student can identify the correct system ready message for the data entered.</p> <p>C. The student can select from a list the results of taking computer action on a SYS;INIT message as being:</p> <ol style="list-style-type: none">1. System ready message is displayed on RD and printed on ELP.2. Message notification to all subscribers that Bn TACFIRE system is on the air.3. Bn TACFIRE system is ready to receive incoming messages.	

TAIS No. 5004

MODULE SYSUNIT INIT

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.3

CRITERION (ITEM(S))	ENABLING (ITEM(S))
<p>4.1 Refer to Figure _____. Preliminary steps have been completed and the Bn TACFIRE system is ready to be placed into operation. To accomplish this you need to select the message format so you can take the initialization and ready action.</p> <ol style="list-style-type: none"> 1. To select the message format you depress the SPA format switches (B) and (2). 2. The selected message format is displayed on the CED by pressing the (FORMAT COMMAND) switch. <p>4.2 The Bn TACFIRE system is ready to be initialized and placed into operation. You have already selected the SYS; INIT format message (Figure C) and must now enter the required information. Answer the following questions concerning the entry of data into the SYS;INIT message format: (Sample data and questions) Data to be included in Figure D.</p> <ul style="list-style-type: none"> • Target number block for Bn is AH0100 through AH0999. • Identity is 1st Bn, 40th regiment. • Zone of responsibility is 1DIV • Date is 20 August 1975 • Time is 1830.00. • Specify alter time. • Specify ready for operation. 	<p>4.1.1 What message format is used to initialize the Bn TACFIRE system and cause it to be operational?</p> <ol style="list-style-type: none"> a. SYS;DIR *b. SYS;INIT c. SYS;MISC d. SYS;FCM <p>4.2.1 From the following list match each mnemonic with its definition and function:</p> <ol style="list-style-type: none"> a. Indicate FDC is ready for operation. b. Identity of FDC before initialized. c. Current system time. d. Update the time. e. Target number block assignments. f. Date, month and year <p>ALTER (d)</p> <p>GO (a)</p> <p>TGT (e)</p> <p>ID (b)</p>

PLS No. 5004

4-184

MODULE SYS
UNIT INIT

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.3

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.2 Refer to Figure C and D for the following questions:</p> <p>1. Which of the following is the correct entry to define the target block number assignment?</p> <p>a. TGT:D/AH0100/9999,</p> <p>b. TGT:D/AH0100/AH9999,</p> <p>c. TGT:B/AH0100/AH9999,</p> <p>*d. TGT:B/AH0100/9999,</p> <p>2. Which of the following is the correct entry for the identity of the initializing FDC?</p> <p>a. ID: 1/1DIV/105 ;</p> <p>*b. ID: 1/105/1DIV ;</p> <p>c. ID: 1/105/DIV1 ;</p> <p>d. ID: 1/DIV1/105 ;</p>	<p>4.2.2 What agency controls the assignment of target number blocks?</p> <p>a. Bn S-3</p> <p>*b. Div Arty S-3</p> <p>c. FSO</p> <p>d. Fire Direction Sergeant</p>

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.3

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.2 3. Which of the following is the correct entry to enter the date and alter the current system time?</p> <p>a. DATE:75/AUG/20; TIME:18/34/00; ALTER:X;</p> <p>b. DATE:20/AUG/75; TIME:30/18/00 ALTER:X;</p> <p>*c. DATE:20/AUG/75; TIME:18/30/00; ALTER:X;</p> <p>d. DATE:20/AUG/75; TIME:18/30/00; ALTER: ;</p> <p>4. To indicate that the system is ready you must specify <u>(GO)</u>.</p>	
<p>4.3 A. What switch action is taken to process the completed SYS;INIT input message? <u>(C/ED CMPTR ACTION)</u></p> <p>B. Refer to Figure __ which shows several examples of messages. Pick the message that informs the ACC operator that the Bn TACFIRE system is ready for operation after taking computer action on SYS;INIT. Figure <u>(C)</u>.</p>	

TAIS No. 5004

4-186

MODULE SYS
UNIT INIT

TEST ITEMS

TASK IDENTIFICATION: 4.0

TASK ELEMENTS: 4.1 - 4.3

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>4.3 C. From the following list, pick the statements that indicate the results of taking computer action on the SYS;INIT input message:</p> <ol style="list-style-type: none">1. System ready message is displayed on the CED and printed on the ELP.*2. System ready message is displayed on the RD and printed on the ELP.*3. Message notification is sent to all subscribers that the Bn TACFIRE system is on the air.4. The statement "Ready" is plotted on the DPM with date and time.*5. Bn TACFIRE system is ready to receive incoming messages. <p><u>(2, 3, 5)</u></p>	

TAIS No. 5005

MODULE	<u>SYS</u>
UNIT	<u>FORM</u>

TRAINING ANALYSIS INFORMATION SHEET

1. TASK IDENTIFICATION: 5.0
2. TASK: Request message formats using SYS;FORM message when operation of format matrix switches has temporarily failed.
3. CONDITIONS: Given requirement to use message formats when format matrix switches are in a fail state, enter SYS;FORM message to request desired message format.
Given different formatted test items concerning the use of the SYS;FORM message to request message formats, provide correct response.
4. STANDARD: No errors.
5. TASK ANALYSIS:

TASK ELEMENTS	PREREQUISITE KNOWLEDGE OR SKILL REQUIREMENTS	SUPPLEMENTAL TRAINING MATERIAL	REFERENCES
5.1 Identify entries for SYS;FORM message.	5.1 Know operation of ACC component parts.	1. Entry data and SYS;FORM format.	DTM 11-7440-240-10 Chapter 4 Pages 4-1 through 4-14; 4-45 through 4-49; 4-83 through 4-97; 4-129 through 4-139
5.2 Take computer action.	5.2 Know operation of ACC component parts.	2. Additional material to be developed as required.	

TAIS No. 5005

MODULE SYS
UNIT FORM

CRITERION AND ENABLING OBJECTIVES

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.2

CRITERION OBJECTIVE(S)	ENABLING OBJECTIVE(S)
<p>5.1 Given information to request message formats using the SYS;FORM message due to temporary operational failure of the format matrix switches, the student will identify the entries to simulate the completion of the SYS; FORM input message.</p> <p>Data entries will include:</p> <ul style="list-style-type: none"> • Message category • Message type • Requested message category/type <p>(Data to be specified)</p> <p>5.2 A. The student can identify the switch action to take to process the completed SYS;FORM input message as being: C/ED CMPTR ACTION.</p> <p>B. The student can pick from a list the results of taking computer action on a SYS;FORM message as being: THE REQUESTED MESSAGE FORMAT IS DISPLAYED ON THE CED.</p>	<p>5.1.1 Select from a list the message to use to request message formats when the format matrix switches are temporarily not functioning as being SYS;FORM.</p> <p>5.1.2 State CED as being where the SYS; FORM message must be entered to request message formats.</p> <p>5.1.3 Pick from a list the display line on the CED in which the SYS;FORM message is entered as being: 2ND DISPLAY LINE.</p> <p>5.1.4 Select from a list the number of characters that are required to specify the requested message category in the SYS;FORM message as being: 2.</p> <p>5.1.5 Pick from a list the symbol that is used to signify end-of-transmission in message formats as being: J</p>

FAIS No. 5005

MODULE SYS

UNIT FORM

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.2

CRITERION ITEM(S)	ENABLING ITEM(S)
<p>5.1 Refer to Figure __. One of your FOs has moved to a new location and you need to enter his new coordinates into the TACFIRE data base. In trying to select the FM;OBCO message you discover the format matrix switches are not functioning. Which of the following is the correct entry to request the FM;OBCO using the system form message:</p> <p>a. SYS;FORM;FM/OBCO</p> <p>b. SYS;FORM:FM/OBCO</p> <p>c. SYS;FORM:FM/OBCO</p> <p>*d. SYS;FORM:FM/OBCO</p>	<p>5.1.1 What system message used by the ACC operator is used to request message formats when the matrix format switches are not functioning:</p> <p>a. SYS;ADDR</p> <p>b. SYS;INIT</p> <p>*c. SYS;FORM</p> <p>d. SYS;DIR</p>
<p>5.2 A. What is the switch action to take to process the completed SYS;FORM message? (C/ED CMPTR ACTION)</p> <p>B. What is the result of taking computer action on a completed SYS;FORM message?</p> <p>1. The requested message format is printed on the ELP.</p> <p>*2. The requested message format is displayed on the CED.</p> <p>3. The requested message format is displayed on the RD.</p> <p>4. The requested message is sent to Div Arty.</p>	<p>5.1.2 On what display does the ACC operator enter the SYS;FORM message to request specific message formats when the matrix format switches are not operational? (RD or CED)</p> <p>5.1.3 What display line on the CED must the ACC operator key in the SYS;FORM message?</p> <p>a. 1st display line</p> <p>*b. 2nd display line</p> <p>c. Any display line</p> <p>5.1.4 How many characters are used to specify the requested message category in the SYS;FORM message? (2)</p>

TALS No. 5005

MODULE SYS
UNIT FORM

TEST ITEMS

TASK IDENTIFICATION: 5.0

TASK ELEMENTS: 5.1 - 5.2

CRITERION ITEM(S)	ENABLING ITEM(S)
	<p data-bbox="781 575 1361 659">5.1.5 What is the symbol that is used to signify end-of-transmission in a message?</p> <ul style="list-style-type: none"><li data-bbox="913 680 981 711">a. /<li data-bbox="913 732 981 764">b. ?<li data-bbox="897 785 981 816">*c. d<li data-bbox="913 837 981 869">d. ;

APPENDIX A

REFERENCES

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Chapter 2 - Installation
 - B. Volume 2, Chapter 3 - Equipment Operation
 - C. Volume 3, Chapter 4 - Special Operating Instructions
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Chapter 6 - Ammunition and Fire Unit Function
Chapter 7 - Meteorological Function
Chapter 8 - Fire Support Officer Function
 - E. Volume 5, Chapter 9 - Tactical and Technical Fire Control Function
 - F. Volume 6, Chapter 10- Non-Nuclear Fire Plan Function
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2. Headquarters, Department of the Army, FIELD ARTILLERY CANNON GUNNERY, FM 6-40, 28 June 1974.
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